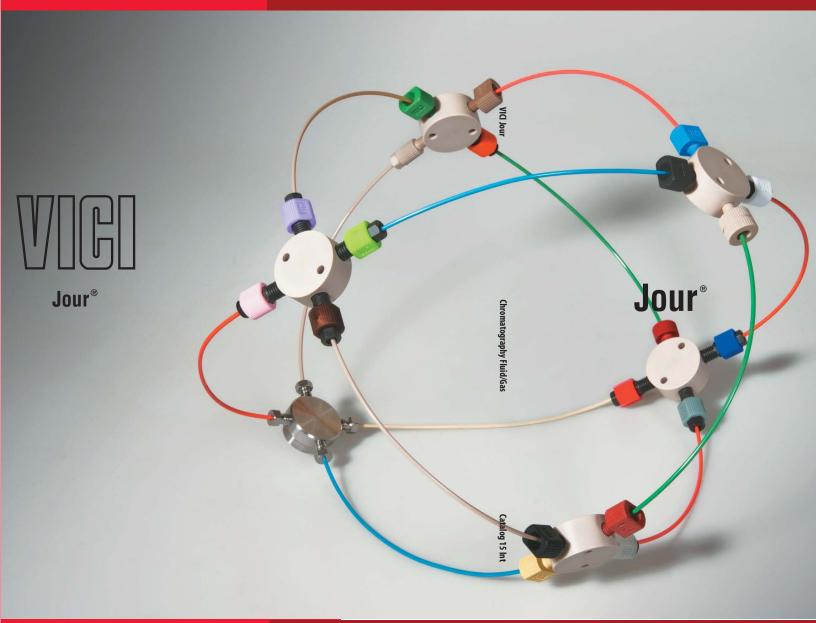
VICI Chromatography Fluid/Gas Transfer

CATALOG 15 INT



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NOTE

Our products could also be available from your local disributor. Please contact VICI AG International for other countries.



VICI AG International

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

VICI AG International, in Schenkon, Switzerland, is an independent site for the manufacturing of Valco and Cheminert valves and the handling of all VICI product lines in Europe, Africa, the Middle East, and the Far East.

VICI AG International has obtained the ISO certificate to the standard of 9001:2008, and is the first ISO-certified manufacturer of high pressure and low pressure valves for scientific equipment.

VICI Jour product line

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

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

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





PRODUCTS FOR UHPLC

VICI Jour now offers high quality, high pressure fittings, filters, and tubing for use in Ultra-High Performance Liquid Chromatography (UHPLC).

Page 15 Stainless steel tubing – premium grade UHPLC

- Seamless Type 316 stainless steel
- Variety of sizes for UHPLC, HPLC, and GC applications
- Smooth internal surface
- Soft annealed OD for easy ferrule connections
- Available in 3 m and 10 m lengths

Page 19 PEEK one-piece hex-head fittings NEW UHPLC

- Made of special PEEK HTTM for better pressure resistance
- One-piece no ferrule required
- Biocompatible

Page 22 PEEK ferrules

- Biocompatible 1/16" ferrule for ultra-high pressures
- Alternative to titanium ferrules in applications with titanium valves

NEW

UHPLC

UHPLC

Excellent in combination with stainless nuts

Pages 38-39 Nanovolume[®] 360 micron fittings

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

Our high pressure fittings permit direct connection of 360 micron OD fused silica, PEEK, stainless, or electroformed nickel tubing without the use of liners.

Pages 31, 32 Valco[®] stainless steel nuts and ferrules

- Excellent fit to Valco fitting details
- Different lengths available

These fittings are for use with all standard Valco internal fittings and most valves. They may be used with fittings from other manufacturers as well. Valco metal ferrules cut a ring near the end of the tube, preventing tube release at high pressures without significantly deforming and restricting the tube interior.

Page 32 Stainless steel plugs and caps

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

Plugs close off an usused port in a valve, manifold, or HPLC column. Caps close off a tube with a ferrule and internal nut already made up.

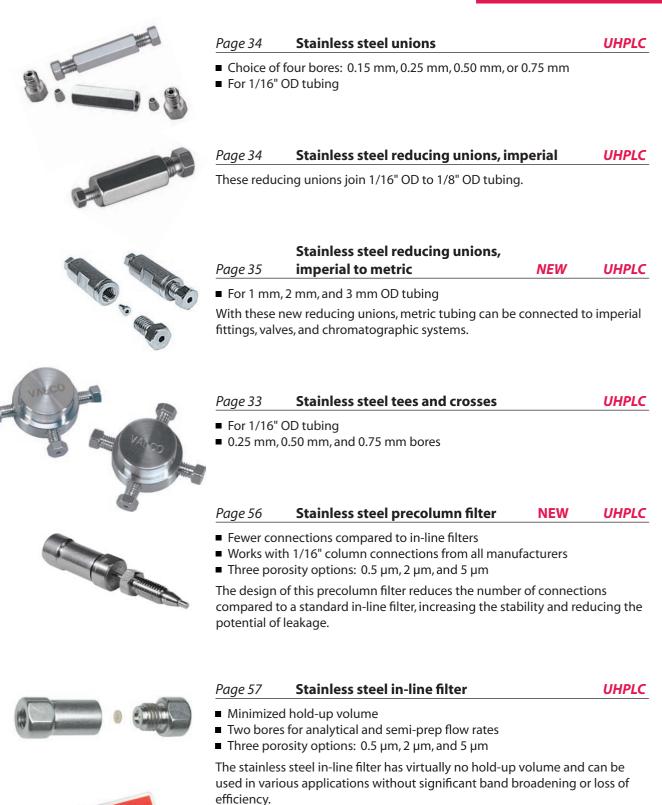






UHPLC

PRODUCTS FOR UHPLC



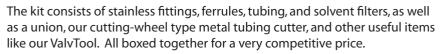
Page 90 Stainless steel starter kit

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UHPLC

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Tubing METAL AND POLYMERIC

We offer chromatography grade tubing in a variety of polymers as well as stainless steel. Outside diameters are 360 µm, 1/32", 1/16", 1/8", and 1/4".

Tubing index

PEEK tubing

Natural PEEK.....page 5 Available in ODs from 360 micron to 1/4", in custom lengths (priced per meter) and packages of 3 and 10 meters. Striped color-coded PEEK6 A stripe is added to the outside of the tubing, so dye never contacts the fluid stream. Dual-layer PEEK7 With an inner layer of natural PEEK and an outer layer of color-coded PEEK, there is no possibility of stream contents coming in contact with coloring agents. Solid color-coded PEEK......8 Pre-cut SS tubing Color coding identifies the ID or your PEEK tubing. Each ID is coded with a different color.

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FEP coated with PVDF combines
the chemical resistance of FEP with
the tight, impermeable structure of
PVDF.
Stainless steel tubing

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DISCLAIMER

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

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Tubing tolerances:

see page 95

VICI offers natural and color-coded PEEK® tubing. PEEK tubing has the strength required to withstand continuous use at HPLC pressure without swelling or bursting, and is not affected by halide salts, high strength buffers, or other aggressive mobile phases that corrode stainless steel. The polymer surface will not leach metal ions into the eluent or extract metal-sensitive components from the sample. Note however that dichloromethane, THF, and DMSO may cause swelling in PEEK, and concentrated nitric and sulphuric acid will attack PEEK.

PEEK tubing – natural

Qty/pk OD	i g: ID	3 m Product No.	10 m Product No.	per meter Product No.	SPECS ■ Maximum
360 µm	n 75 μm	JR-T-6060-M3	JR-T-6060-M10	_	recommended
1/32"	0.13 mm	JR-T-5993-M3	JR-T-5993-M10	_	working
1/16"	0.064 mm	JR-T-5998-M3	JR-T-5998-M10	—	temp: 100°C (continuous)
1/8"	0.75 mm	JR-T-6004-M3	JR-T-6004-M10	_	for 1/16" OD
	1.59 mm	JR-T-60041-M3	JR-T-60041-M10	_	tubing with ID
	2.00 mm	JR-T-60042-M3	JR-T-60042-M10		up to 0.75 mm
1/4"	3.17 mm	—	—	JR-T-6006	Max working pressures: see page 94



Natural PEEK tubing shown with ODs of 1/8", 1/16", 1/32", and 360 µm

WHICH PEEK TUBING FOR WHICH APPLICATION? Application

Standard HPLC*

Tubing 1/16" OD x 0.25 mm ID

1/32"

360 µm

High pressure semi-prep LC* 1/8" OD Agilent 1100 LC systems** Most capillary systems

* Smaller ID for low flow rates/higher ID for high flow rates. Note that a low linear flow rate (cm/min) causes peak broadening.

** For some 1100 LC systems with high pressure flow paths

TECH TIP:

STRAIGHTENING PEEK TUBING

- 1. Start with stainless steel tubing: ID slightly larger than OD of PEEK Length = 2 cm shorter than PEEK
- 2. Slide PEEK tubing into stainless tubing, extending 1 cm out each end of the stainless
- 3. Place sleeved PEEK tubing into oven: 220°C for 30 minutes, or 180°C for 60 minutes
- 4. Allow sleeved tubing to cool in oven to ambient temperature
- 5. Once tubing is cooled, remove PEEK tubing from the SS sleeve
- 6. Check for straightness
- 7. Repeat if necessary

PEEK TUBING TOLERANCES

Due to tighter tolerances, VICI Jour PEEK tubing is the best choice for chromatography applications in which exact flow rates or tube volume are of importance. The tighter tolerance ensures a more consistent internal volume of transfer lines.

Tubing OD	OD (±) (mm)	ID (±) (mm)			
360 µm	0.025	0.013			
1/32"	0.025	0.013			
1/16" *	0.025	0.013			
1/16" **	0.025	0.025			
1/8"	0.05	0.05			
* For ID up to 0.25 mm** For ID over 0.25 mm					

OPTIONS

Contact your distributor for more information about:

- Longer bulk tubing lengths
- Customized ODs and IDs (30 m minimum quantity)

TECH TIP

- A clean burr-free perpendicular cut can be achieved with our Clean-Cut tubing cutter..... 86
- To bend PEEK tubing at the optimal radius, use our tubing elbows... 86

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Striped color-coded PEEK tubing

SPECS

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

see page 94 Tubing tolerances: see page 95 We recommend striped PEEK tubing for easy color-coded identification of tubing ID, with maximum chemical resistance and biocompatibility. The stripe is added to the outside, so dye never contacts the fluid stream.

All colorants used in the manufacture of this tubing are RoHS-compliant. (Restriction of Hazardous Substances)

Qty/pkg: 1 m 3 m Tubing OD Color ID (µm) Product No. Product No. 360 µm Orange 50 JR-T-3650-M1 JR-T-3650-M3 75 JR-T-3675-M1 JR-T-3675-M3 Green Grey 100 JR-T-36100-M1 JR-T-36100-M3 125 Red JR-T-36125-M1 JR-T-36125-M3 Black 150 JR-T-36150-M1 JR-T-36150-M3 1 m 3 m Color ID (mm) Product No. Product No. 1/32" 0.050 JR-T-5702-M1 JR-T-5702-M3 Orange Pink 0.064 JR-T-5764-M1 JR-T-5764-M3 Green 0.075 JR-T-5703-M1 JR-T-5703-M3 Black 0.100 JR-T-5704-M1 JR-T-5704-M3 JR-T-5705-M1 JR-T-5705-M3 Red 0.13 Yellow JR-T-5707-M1 JR-T-5707-M3 0.18 JR-T-5608-M3 Orange 0.20 JR-T-5608-M1 Blue 0.25 JR-T-5710-M1 JR-T-5710-M3 Orange 0.50 JR-T-5720-M1 JR-T-5720-M3 3 m 5m Color ID (mm) Product No. Product No. **TECH TIP** 1/16" 0.050 JR-T-5802-M3 JR-T-5802-M5 Orange JR-T-5998C-M3 JR-T-5998C-M5 Pink 0.064 Green 0.075 JR-T-5803-M3 JR-T-5803-M5 Black 0.10 JR-T-5804-M3 JR-T-5804-M5 Red 0.13 JR-T-5999-M3 JR-T-5999-M5 JR-T-6000-M3 JR-T-6000-M5 Yellow 0.18 0.25 JR-T-6001-M5 Blue JR-T-6001-M3 Orange 0.50 JR-T-6002-M3 JR-T-6002-M5 JR-T-6003-M3 JR-T-6003-M5 Green 0.75 Grey 1.00 JR-T-60031-M3 JR-T-60031-M5 JR-T-60032-M3 JR-T-60032-M5 Black 1.40 10 m 25m Color ID (mm) Product No. Product No. Orange 0.050 JR-T-5802-M10 JR-T-5802-M25 0.064 JR-T-5998C-M10 JR-T-5998C-M25 Pink 0.075 JR-T-5803-M10 JR-T-5803-M25 Green Black 0.100 JR-T-5804-M10 JR-T-5804-M25 JR-T-5999-M25 JR-T-5999-M10 Red 0.13 Yellow 0.18 JR-T-6000-M10 JR-T-6000-M25 Blue 0.25 JR-T-6001-M10 JR-T-6001-M25 Orange 0.50 JR-T-6002-M10 JR-T-6002-M25 JR-T-6003-M10 JR-T-6003-M25 Green 0.75 Grey 1.00 JR-T-60031-M10 JR-T-60031-M25 Black 1.40 JR-T-60032-M10 JR-T-60032-M25

VICI Jour sample loops for analytical applications are made of PEEK striped color-coded tubing.

PEEK loops81

OPTIONS

Contact your distributor or VICI about:

- Longer bulk tubing lengths
- Customized ODs and IDs (30 m minimum quantity)

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SPECS

Maximum

working

temp: 100°C (continuous)

Max working

pressures:

see page 94 Tubing

tolerances:

see page 95

recommended

TUBING

Dual layer color-coded PEEK tubing

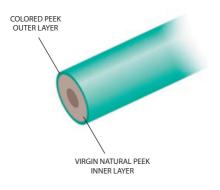
- Inner layer of natural PEEK, outer layer of color-coded PEEK
- No possibility of stream coming in contact with coloring agents
- Pressure performance equivalent to single layer tubing
- 1/16" OD, IDs from 0.10 to 0.75 mm

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

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

*All colorants used in the manufacture of this tubing are RoHS-compliant. (Restriction of Hazardous Substances)

Qty/pkg: Tubing OD	Color	ID (mm)	bar	psi	3 m Product No.	10 m Product No.	25 m Product No.
1/16"	Black	0.10	460	6700	JR-TD-5804-M3	JR-TD-5804-M10	JR-TD-5804-M25
	Red	0.13	420	6100	JR-TD-6007-M3	JR-TD-6007-M10	JR-TD-6007-M25
	Yellow	0.18	400	5800	JR-TD-6008-M3	JR-TD-6008-M10	JR-TD-6008-M25
	Blue	0.25	386	5600	JR-TD-6009-M3	JR-TD-6009-M10	JR-TD-6009-M25
	Orange	0.50	350	4500	JR-TD-6010-M3	JR-TD-6010-M10	JR-TD-6010-M25
	Green	0.75	240	3500	JR-TD-6011-M3	JR-TD-6011-M10	JR-TD-6011-M25

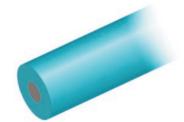


OPTIONS AND MORE INFORMATION See facing page.



Solid color-coded PEEK tubing

SPECSMaximum recommended		Color-coding identifies the ID of your PEEK tubing – each ID is coded with a different color. Solid colored tubing is made of pre-dyed raw material.						
 working temp: 100°C (continuous) for 1/16" OD tubing with ID up to 0.75 mm Max working pressures: see page 94 Tubing tolerances: see page 95 		All colorants used in the manufacture of this tubing are RoHS-compliant. (Restriction of Hazardous Substances)						
	Qty/pkg: Tubing OD	Color	ID (μm)	1 m Product No.	3 m Product No.	10 m Product No.		
	360 µm	Orange Natural Green	50 75 75	JR-T-3750-M1 — JR-T-3775-M1	JR-T-3750-M3 JR-T-6060-M3 JR-T-3775-M3	 JR-T-6060-M10 		
		Grey Red Black	100 125 150	JR-T-37100-M1 JR-T-37125-M1 JR-T-37150-M1	JR-T-37100-M3 JR-T-37125-M3 JR-T-37150-M3			
		Color	ID (mm)	1 m Product No.	3 m Product No.	10 m Product No.		
	1/32"	Orange Pink Green	0.050 0.064 0.075	JR-T-5602-M1 JR-T-5664-M1 JR-T-5603-M1	JR-T-5602-M3 JR-T-5664-M3 JR-T-5603-M3	 		
		Black Natural Red	0.100 0.13 0.13	JR-T-5604-M1 JR-T-5605-M1	JR-T-5604-M3 JR-T-5993-M3 JR-T-5605-M3	 JR-T-5993-M10 		
		Purple Natural Yellow	0.15 0.18 0.18	JR-T-5606-M1 JR-T-5607-M1	JR-T-5606-M3 JR-T-5994-M3 JR-T-5607-M3	 JR-T-5994-M10 		
		Orange Natural Blue	0.20 0.25 0.25	JR-T-5608-M1 — JR-T-5610-M1	JR-T-5608-M3 JR-T-5995-M3 JR-T-5610-M3	 JR-T-5995-M10 		
		Natural Orange	0.38 0.50	 JR-T-5620-M1	JR-T-5715-M3 JR-T-5620-M3	JR-T-5715-M10 —		
		Color	ID (mm)	3 m Product No.	10 m Product No.	25 m Product No.		
	1/16"	Natural Black Red	0.064 0.10 0.13	JR-T-5998-M3 JR-T-6020-M3 JR-T-6007-M3	JR-T-5998-M10 JR-T-6020-M10 JR-T-6007-M10	JR-T-5998-M25 JR-T-6020-M25 JR-T-6007-M25		
		Purple Yellow Blue	0.15 0.18 0.25	JR-T-6030-M3 JR-T-6008-M3 JR-T-6009-M3	JR-T-6030-M10 JR-T-6008-M10 JR-T-6009-M10	JR-T-6030-M25 JR-T-6008-M25 JR-T-6009-M25		
		Grey Orange Green	0.38 0.50 0.75	JR-T-6040-M3 JR-T-6010-M3 JR-T-6011-M3	JR-T-6040-M10 JR-T-6010-M10 JR-T-6011-M10	JR-T-6040-M25 JR-T-6010-M25 JR-T-6011-M25		



TECH TIP

See our dual layer PEEK tubing for solid colored PEEK tubing with no possibility of stream coming into contact with coloring agents......7

OPTIONS

Contact your distributor or VICI about:

- Longer bulk tubing lengths
- Customized ODs and IDs (30 m minimum quantity)

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

SPECS

- Max working pressures: see page 94
- Tubing tolerances: see page 95

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

Qty/pkg: Tubing OD	ID (mm)	3 m Product No.	10 m Product No.	25 m Product No.
1/32"	0.25	JR-T-084-M3	JR-T-084-M10	JR-T-084-M25
1/16"	0.18 0.25 0.50	JR-T-078-M3 JR-T-080-M3 JR-T-082-M3	JR-T-078-M10 JR-T-080-M10 JR-T-082-M10	JR-T-078-M25 JR-T-080-M25 JR-T-082-M25
	0.75 1.00	JR-T-083-M3 JR-T-085-M3	JR-T-083-M10 JR-T-085-M10	JR-T-083-M25 JR-T-085-M25
1/8"	1.59	JR-T-086-M3	JR-T-086-M10	JR-T-086-M25
	ID (mm)	1 m Product No.	3 m Product No.	
3.0 mm	1.0	JR-T-087-M1	JR-T-087-M3	
6.0 mm	4.0	JR-T-088-M1	JR-T-088-M3	

PFA tubing

ETFE tubing

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

SPECS

 Max working pressures: see page 94
 Tubing tolerances: see page 95

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

Qty/pkg: Tubing OD	ID (mm)	1 m Product No.	3 m Product No.	
360 µm	50 μm 75 μm 100 μm	JR-T-43650-M1 JR-T-43675-M1 JR-T-436100-M1	JR-T-43650-M3 JR-T-43675-M3 JR-T-436100-M3	
	ID (mm)	3 m Product No.	10 m Product No.	25 m Product No.
1/16"	0.50 mm 0.75 mm 1.00 mm	JR-T-4001-M3 JR-T-4002-M3 JR-T-4007-M3	JR-T-4001-M10 JR-T-4002-M10 JR-T-4007-M10	JR-T-4001-M25 JR-T-4002-M25 JR-T-4007-M25
1/8"	1.59 mm	JR-T-4003-M3	JR-T-4003-M10	JR-T-4003-M25
	ID (mm)	per meter Product No.		_
1/8"	1.70 mm	JR-T-4005		
3/16"	3.20 mm	JR-T-4009		
1/4"	4.35 mm	JR-T-4004		



- When selecting tubing for low pressure applications, give careful consideration to gas permeability characteristics.
- Use PFA instead of PTFE if gas permeability is an issue.

OPTIONS

Contact your distributor or VICI about:

- Longer tubing lengths at competitive bulk prices
- Customized ODs and IDs (30 m minimum quantity)

MORE INFORMATION

About ETFE99
Chemical resistance 96-98
Maximum working
pressure94
Tubing ID chart:
volume per length 93
Tubing tolerances 95

RELATED PRODUCTS

HROMalytic +61(0)3 9762 2034 ECHnology Pty Lta Website NEW : www.chromalytic.com.au E-mail : info@chromtech.net.au Tel: 03 9762 2034 ... in AUSTRALIA

FEP tubing Color-coded

TUBING

FEP tubing, solid color-coded

1/32"

Black

Red

Purple

0.10

0.13

0.15

SPECS Maximum recommended working temp: 80°C	FEP (Fluorinated) solvents, and is re tubing holds up (1000 psi).	ecommended	for low pressur	e applications. T	ypically 1/16" OD
(continuous) Max working	Solid colors iden	tify the tubin	g ID.		
pressures: see page 94	We recommend	FEP for ion ch	romatography a	applications.	
 Tubing tolerances: see page 95 	Qty/pkg: Tubing OD Color	ID (mm)	3 m Product No.	10 m Product No.	25 m Product No.

	Yellow	0.18	JR-T-6607C-M3	JR-T-6607C-M10	JR-T-6607C-M25
	Blue	0.25	JR-T-6610C-M3	JR-T-6610C-M10	JR-T-6610C-M25
	Orange	0.50	JR-T-6620C-M3	JR-T-6620C-M10	JR-T-6620C-M25
	Color	ID (mm)	3 m Product No.	10 m Product No.	25 m Product No.
1/16"	Black	0.10	JR-T-6704C-M3	JR-T-6704C-M10	JR-T-6704C-M25
	Red	0.13	JR-T-6705C-M3	JR-T-6705C-M10	JR-T-6705C-M25
	Purple	0.15	JR-T-6706C-M3	JR-T-6706C-M10	JR-T-6706C-M25
	Yellow	0.18	JR-T-6707C-M3	JR-T-6707C-M10	JR-T-6707C-M25
	Blue	0.25	JR-T-6812C-M3	JR-T-6812C-M10	JR-T-6812C-M25
	Orange	0.50	JR-T-6802C-M3	JR-T-6802C-M10	JR-T-6802C-M25
	Green	0.75	JR-T-6803C-M3	JR-T-6803C-M10	JR-T-6803C-M25
	Black	1.00	JR-T-6806C-M3	JR-T-6806C-M10	JR-T-6806C-M25

JR-T-6604C-M3

JR-T-6605C-M3

JR-T-6606C-M3

JR-T-6604C-M10

JR-T-6605C-M10

JR-T-6606C-M10 JR-T-6606C-M25

JR-T-6604C-M25

JR-T-6605C-M25

TECH TIP

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

OPTIONS

Contact your distributor or VICI about:

- Longer tubing lengths at competitive bulk prices
- Customized ODs and IDs (30 m minimum quantity)

MORE INFORMATION

About FEP99	
Chemical resistance 96-98	
Maximum working	
pressure94	
Tubing ID chart:	
volume per length 93	
Tubing tolerances 95	

RELATED PRODUCTS

Clean-cut tubing cutter86 Easy-Flange kit85 Low pressure fittings40-47

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FEP tubing Natural

TU<u>BING</u>

FEP tubing, natural color

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

We recommend FEP for ion chromatography applications.

Qty/pkg:	ID (mm)	1 m	3 m	10 m
Tubing OD		Product No.	Product No.	Product No.
1/32"	0.10	JR-T-6794-M1	JR-T-6794-M3	JR-T-6794-M10
	0.13	JR-T-6605-M1	JR-T-6605-M3	JR-T-6605-M10
	0.15	JR-T-6606-M1	JR-T-6606-M3	JR-T-6606-M10
	0.18	JR-T-6607-M1	JR-T-6607-M3	JR-T-6607-M10
	0.25	JR-T-6610-M1	JR-T-6610-M3	JR-T-6610-M10
	0.38	JR-T-6615-M1	JR-T-6615-M3	JR-T-6615-M10
	0.50	JR-T-6620-M1	JR-T-6620-M3	JR-T-6620-M10
	ID (mm)	3 m Product No.	10 m Product No.	25 m Product No.
1/16"	0.10	JR-T-6704-M3	JR-T-6704-M10	JR-T-6704-M25
	0.13	JR-T-6705-M3	JR-T-6705-M10	JR-T-6705-M25
	0.15	JR-T-6706-M3	JR-T-6706-M10	JR-T-6706-M25
	0.18	JR-T-6707-M3	JR-T-6707-M10	JR-T-6707-M25
	0.20	JR-T-6708-M3	JR-T-6708-M10	JR-T-6708-M25
	0.25	JR-T-6812-M3	JR-T-6812-M10	JR-T-6812-M25
	0.30	JR-T-6702-M3	JR-T-6702-M10	JR-T-6702-M25
	0.50	JR-T-6802-M3	JR-T-6802-M10	JR-T-6802-M25
	0.75	JR-T-6803-M3	JR-T-6803-M10	JR-T-6803-M25
	1.00	JR-T-6806-M3	JR-T-6806-M10	JR-T-6806-M25
1/8"	1.59	JR-T-6804-M3	JR-T-6804-M10	JR-T-6804-M25
	2.10	JR-T-6813-M3	JR-T-6813-M10	JR-T-6813-M25
3/16"	3.18	JR-T-6835-M3	JR-T-6835-M10	JR-T-6835-M25
1 mm	0.50	JR-T-6105-M3	JR-T-6105-M10	JR-T-6105-M25
2 mm	1.00	JR-T-6210-M3	JR-T-6210-M10	JR-T-6210-M25
3 mm	1.00	JR-T-6310-M3	JR-T-6310-M10	JR-T-6310-M25
	2.00	JR-T-6320-M3	JR-T-6320-M10	JR-T-6320-M25
Qty/pkg:		per meter		

Qty/pkg:		per meter
Tubing OD	ID (mm)	Product No.
1/4"	4.35	JR-T-6809



- Maximum recommended working temp: 80°C (continuous)
- Max working pressures: see page 94
- Tubing tolerances:
- see page 95

OPTIONS AND MORE INFORMATION See facing page.



PTFE tubing, solid color-coded

SPECS

 Maximum recommended working temp: 100°C (continuous)

- Maximum working pressures: see page 94
 Tubing
- tolerances: see page 95

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

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

Solid colors identify the tubing ID.

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



PTFE tubing, natural color

SPECS Maximum recommended working	PTFE tubing is chemically inert and suitable for lower pressure applications. Typically 1/16" OD tubing holds up to 62 bar (900 psi) and 1/8" up to 35 bar (500 psi). Maximum continuous operating temperature is 100°C.						TECH TIP Use PFA instead of PTFE if gas permeability is an
temp: 100°C (continuous)	Qty/pkg: Tubing OD	ID (mm)	3 m Product No.	5 m Product No.	10 m Product No.	25 m Product No.	issue.
Max working pressures:	1/16″	0.18	JR-T-6805-M3	JR-T-6805-M5	JR-T-6805-M10	JR-T-6805-M25	TECH TIP Use black PTFE for for light sensitive
see page 94 Tubing tolerances:		0.25 0.50	JR-T-4011-M3 JR-T-4183-M3	JR-T-4011-M5 JR-T-4183-M5	JR-T-4011-M10 JR-T-4183-M10	JR-T-4011-M25 JR-T-4183-M25	applications such as enzymatic reactions,
see page 95		0.75 1.00	JR-T-4036-M3 JR-T-6807-M3	JR-T-4036-M5 JR-T-6807-M5	JR-T-4036-M10 JR-T-6807-M10	JR-T-4036-M25 JR-T-6807-M25	luminescent reaction connectioning to a fl
	1/8″	1.59 2.40	JR-T-6800-M3 JR-T-4037-M3	JR-T-6800-M5 JR-T-4037-M5	JR-T-6800-M10 JR-T-4037-M10	JR-T-6800-M25 JR-T-4037-M25	cell, and radioactive
		2.40	3 m	10 m	25 m	JK-1-4037-14125	Contact your distribut
		ID (mm)	Product No.	Product No.	Product No.		Longer tubing length
	2 mm	1.70	JR-T-6801-M3	JR-T-6801-M10	JR-T-6801-M25		at competitive bull prices
	4 mm	3.00	JR-T-4039-M3	JR-T-4039-M10	—		 Customized ODs an IDs (30 m minimun
	Qty/pkg: Tubing OD in. mm	ID (mm)	per meter Product No.				quantity)
	3/16" 4.76	3.76	JR-T-4041				About PTFE Chemical resistance
	1/4" 6.35	4.35	JR-T-6810				Maximum working pressure Tubing ID chart: volume per length Tubing tolerances
							RELATED PRODUC Clean-cut tubing cutter Easy-Flange kit Flanged fittings Flangeless fittings

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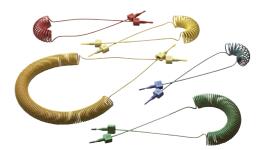
FOR PRICING

Contact VICI

or your local

distributor for more information

or a quotation.



Thermo-formed polymeric tubing

- Available in a variety of polymers
- Provides axial flexibility
- Telephone cables or customer-specified shapes

VICI Jour offers thermo-formed tubing in various geometric shapes and polymers. The form will maintain its shape so long as the temperature does not exceed 100°C.

Straight tubing, spirals, or even more complex forms – just define your form and material on a drawing for us.

Impermeable polymeric tubing

- FEP coated with PVDF
- Prevents "re-gassing"

Website NEW : www.chromalytic

Excellent chemical resistance

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

- SPECS
- Low pressure only
- 1/8" OD,
 1.65 mm ID
 OD and ID
 tolerances:
 ±0.05 mm
- ±0.05 mm (.002") ■ Materials *Tubing:* FEP coated with
- coated with PVDF Insert: PCTFE Ferrule: ETFE Fitting: PPS

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

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

Qty/pkg:		Proc	3 m luct No.	10 n Product		
Impermeable tubing, 1/8" OD x 1.65 mm ID			-6130-M3	JR-T-613	30-M10	
	Qty/pkg	Proc	luct No.			
Additional spare parts						
PCTFE tubing inserts	10		141-10			
1/8" PPS nuts	10	JR-5	5071-10			
1/8" ETFE ferrules	10	JR-0	51-10			
Fitting kit		JR-6	140			
contains:						
PCTFE tubing insert						
1/8" PPS nuts	2					
1/8" ETFE ferrules	2					
FE	P TUBE					
PV						
1/8" FERRULE						
	ECIAL PCTFE IBING INSERT					
HROMAIY			Australian Dis Importers & Man www.chromtec	ufacurers	12 /13	
ECF	nology			Activities and the second	AUSTRALIA	

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1/8" OD TUBING

TECH TIP

Use FEP or PFA tubing inside the solvent reservoir, since PVDF has limited chemical resistance.

PVDF LAYER

STRIPPED AWAY

TECH TIP

Always use the speciallydesigned tubing insert to prevent solvent contact with the PVDF layer.

OPTIONS

Contact us for more info about longer tubing lengths at competitive bulk prices.

MORE INFORMATION

RELATED PRODUCTS

Clean-cut	
tubing cutter86	5
Color-sleeve	
fingertight adapters . 17	7

Pre-cut stainless steel tubing

SPECS

- Pressure rating varies with ID: minimum is 365 bar (5300 psi) (see page 93) Tolerances ±0.05mm OD
- For zero dead volume connections
- Steam-cleaned and ready to use
- Soft annealed OD for easy ferrule connections
- Color bands for quick identification of tubing ID

VICI Jour offers pre-cut 1/16" stainless steel tubing in lengths most commonly required in UHPLC and HPLC systems. The tubes are cut to square, burrfree ends for zero dead volume connections. Colored bands allow quick ID identification.

VICI pre-cut tubing is specially cleaned with steam from micro-filtered deionized water, which removes both organic and inorganic contaminants. Longer tubes are cleaned with liquid hexane. Softener-free polyethylene caps are used to prevent any contamination during shipment and storage.

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

Pre-cut flexible stainless steel tubing

- **SPECS**
- Pressure rating varies with ID: minimum is 365 bar (5300 psi) (see page 93) Tolerances OD ±0.05mm
- Seamless 1/32" tubing with 1/16" laser-welded ends For zero dead volume connections Steam-cleaned and ready to use
- Soft annealed OD for easy ferrule connections

Website NEW .

Color bands for guick identification

Our flexible pre-cut stainless steel tubing is made of 1/32" premium grade 316 stainless steel tubing with ends laser-welded into 1/16" tubing of the same premium grade. Available in lengths most commonly required in UHPLC and HPLC systems.



UHPLC

for

custom lengths.

UHPLC

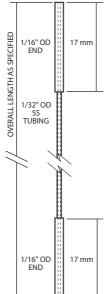
The tubes are cut to square, burr-free ends for zero dead volume connections. Colored bands allow quick ID identification.

VICI pre-cut tubing is specially cleaned with steam from micro-filtered deionized water, which removes both organic and inorganic contaminants. Longer tubes that cannot be steam-cleaned are cleaned with liquid hexane. Softener-free polyethylene caps are used to prevent any contamination during shipment and storage.

Lengt	: h:	ID (mm)	105 mm	150 mm	200 mm	280 mm	400 mm
OD	Color		Product No.	Product No.	Product No.	Product No.	Product No.
1/16"	Red	0.13	JR-T-96005	JR-T-96010	JR-T-96015	JR-T-96020	JR-T-96025
	Yellow	0.18	JR-T-96105	JR-T-96110	JR-T-96115	JR-T-96120	JR-T-96125
	Blue	0.25	JR-T-96205	JR-T-96210	JR-T-96215	JR-T-96220	JR-T-96225
	Orange	0.50	JR-T-96305	JR-T-96310	JR-T-96315	JR-T-96320	JR-T-96325
	Red	0.13	600 mm <i>Product No.</i> JR-T-96030	700 mm Product No. JR-T-96035	800 mm <i>Product No.</i> JR-T-96040	900 mm Product No. —	
	Yellow	0.18	JR-T-96130	JR-T-96135	JR-T-96140	JR-T-96145	TECH TIP
	Blue	0.25	JR-T-96230	JR-T-96235	JR-T-96240	—	Contact your local
	Orange	0.50	JR-T-96330	JR-T-96335	JR-T-96340	—	distributor or VICI f

(.002") ID ±0.025mm (.001")







Stainless tubing Bulk quantities

TUBING

Stainless steel tubing – premium grade

- Seamless Type 316 stainless steel
- Variety of sizes for UHPLC, HPLC, and GC applications
- Smooth internal surface
- Soft annealed OD for easy ferrule connections

Our premium grade seamless stainless steel tubing is the base for all high pressure and ultra-high pressure lines in your equipment.

Note that this tubing is roughly cut with tubing pliers so the ends must be properly cut before use.

Qty/pkg: Tubing OD	ID (mm)	3 m Product No.	10 m Product No.
1/32"	0.13 0.18	JR-TSS.505-M3 JR-TSS.507-M3	JR-TSS.505-M10 JR-TSS.507-M10
	0.25 0.50	JR-TSS.510-M3 JR-TSS.520-M3	JR-TSS.510-M10 JR-TSS.520-M10
1/16"	0.13 0.25 0.38	JR-TSS105-M3 JR-TSS110-M3 JR-TSS115-M3	JR-TSS105-M10 JR-TSS110-M10 JR-TSS115-M10
	0.50 0.75 1.00	JR-TSS120-M3 JR-TSS130-M3 JR-TSS140-M3	JR-TSS120-M10 JR-TSS130-M10 JR-TSS140-M10
1/8"	0.75 1.00 1.52	JR-TSS230-M3 JR-TSS240-M3 JR-TSS260-M3	JR-TSS230-M10 JR-TSS240-M10 JR-TSS260-M10
	1.70 2.16	JR-TSS267-M3 JR-TSS285-M3	JR-TSS267-M10 JR-TSS285-M10

Pressure rating

SPECS

UHPLC

(values shown are minimum; rating varies with ID; (see page 93) bar psi OD 1/32" 400 5800 1/16" 365 5300 315 4600 1/8" Tolerances OD ±0.05mm (.002") ID ±0.025mm (.001")

TECH TIP

For zero dead volume connections, we strongly recommend pre-cut stainless steel tubing ...14

NOTE

ID dimensions in mm are converted from nominal inch dimensions.

OPTIONS

Contact us for more info about longer tubing lengths at competitive bulk prices.

MORE INFORMATION

About Type 316 stainless steel.....100 Maximum working pressure93 Tubing ID chart: volume per length...93

RELATED PRODUCTS

Stainless steel tubing cutter87 Stainless fittings....30-35

Stainless steel tubing – standard grade

- Type 316 stainless steel, welded under inert gas
- Variety of sizes for HPLC and GC applications
- Smooth internal surface
- Soft annealed OD for easy ferrule connections

Qty/pkg:	ID (mm)	3 m	10 m
Tubing OD		Product No.	Product No.
1/16"	0.13	JR-T-625-04-M3	JR-T-625-04-M10
	0.18	JR-T-625-05-M3	JR-T-625-05-M10
	0.25	JR-T-625-10-M3	JR-T-625-10-M10
	0.50	JR-T-625-20-M3	JR-T-625-20-M10
	0.75	JR-T-625-30-M3	JR-T-625-30-M10
	1.00	JR-T-625-40-M3	JR-T-625-40-M10
1/8"	2.1	JR-T-626-00-M3	JR-T-626-00-M10
Qty/pkg: Tubing OD	ID (mm)	per meter Product No.	
1/4"	4.65	JR-T-628-00	

UHPLC

SPECS					
Pressu	Pressure rating				
(value	s sho	wn			
are m	inimu	ım;			
rating	varie	es			
with I	D;				
(see p	age 9	93)			
OD	bar	psi			
1/16"	315	4600			
	315				
	315				
1/8"	315 nces				
1/8" ∎ Tolera	315 nces ±0.0	4600			
1/8" ∎ Tolera	315 nces ±0.0	4600 5mm			



Fittings HIGH AND LOW PRESSURE



High pressure polymeric fittings... page 18

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

High pressure stainless fittings.... page 30

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



Nanovolume® HPLC fittings page 36

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

Low pressure fittings..... page 40



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

MORE INFORMATION

Tools for fittings				
Ferrule removal kit89				
Tweezer				
ValvTool				
Wrench				



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Color-coded adapters

FITTINGS



Color-It fingertight adapters

- For high and low pressure
- Fit all hex-head PEEK and SS fittings for 1/16" tubing
- SPECS For 1/4" hex-
- head nuts ■ Material:
- Polypropylene
- Available in six colors for easy solvent line identification

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

Color	Qty/pkg	Product No.		人1/4"
Blue	5	JR-55010-5		X
Yellow	5	JR-55011-5		
Green	5	JR-55012-5		
Black	5	JR-55013-5		
White	5	JR-55014-5	6.5 mm	11 mm
Red	5	JR-55015-5		1
Assorted	2 each	JR-55016-12		

Color-Sleeve fingertight adapters

- For high and low pressure
- Designed for our PPS fittings for 1/16" tubing
- Available in twelve colors for easy solvent line identification
- SPECS
- For 1/4" hexhead nuts
- Material:
- Polypropylene

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

Color	(Qty/pkg	Product No.	Color	C	Qty/pkg	Product No.
0	Natural	5 10	JR-55080-5 JR-55080-10		Brown	5 10	JR-55088-5 JR-55088-10
	White	5 10	JR-55081-5 JR-55081-10		Green	5 10	JR-55089-5 JR-55089-10
0	Dark grey	5 10	JR-55082-5 JR-55082-10		Blue	5 10	JR-55090-5 JR-55090-10
	Black	5 10	JR-55083-5 JR-55083-10		Purple	5 10	JR-55091-5 JR-55091-10
	Lavender	5 10	JR-55084-5 JR-55084-10	Assorted All 12 d	colors	2 each	JR-5508X-24
	Red	5 10	JR-55085-5 JR-55085-10		ed, green, , black, white	e 2 each	JR-5508X-12
	Yellow	5 10	JR-55086-5 JR-55086-10			9.2 mm	
	Orange	5 10	JR-55087-5 JR-55087-10			9.9	5 mm

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Website NEW : v

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MORE INFORMATION

Hex head nuts
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PPS
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Low pressure 41

High pressure fittings

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

High pressure polymeric fittings index

One-piece fittings

ene piece numge
PEEK hex-head
Over 5,000 psi NEW page 19
5,000 psi19
PEEK fingertight
Color-coded20
Natural
PPS hex-head19
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Nuts and ferrules

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Plugs and caps

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PEEK unions
Unions
Bulkhead unions
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PEEK tees and crosses

PEEK adapters

PEEK	port and Luer	adapters	

DISCLAIMER

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

RELATED PRODUCTS

ChromBox kit91
HPLC parts kit with
PEEK and stainless
fittings and tubing
Fingertight adapters
Color-It17
Color-Sleeve17
Nanovolume [®] high
pressure fittings36-39
PEEK starter kits 90
Tools for fittings 88-89

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UHPLC

6-40

10-32

625 bar

700 bar (10,000 psi)

10-32

(9,000 psi)

SPECS

Material:

black

Threads:

1/32"

1/16"

1/16"

SPECS For 1/16" OD

tubing

PEEK, special

 Pressure ratings, fingertight,

on SS tubing: 1/32"

HIGH PRESSURE FITTINGS POLYMERIC

PEEK	one-piece	hex-head	fittings	NEW
------	-----------	----------	----------	-----

Cittan

Wohsite NEW . v

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

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

Sold in packages of 10.

Includes a tightening tool (page 89) for easy installation.

Tubing ID	Thread	Product No.
1/32"	6-40	JR-5525-10
1/16"	10-32	JR-5520-10

PEEK one-piece hex-head fittings

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

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

Sold in packages of 5.



PPS one-piece hex-head fittings

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

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

Sold in packages of 5.

Product No. JR-58000-5



Shown with Color-Sleeve adapter, sold separately

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Material: PEEK 10-32 threads Tolerance:

±0.05 mm (.002") Pressure rating:

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

20.0 mm

Long

10-32

- SPECS ■ For 1/16" OD tubing
- Material: Black PPS (Polyphenylene
- sulfide) 10-32 threads Tolerance:
- ±0.05 mm (.002")Pressure rating:
- <350 bar (5000 psi) (Varies with tubing material and ID)

TZ/13

TECH TIP

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

MORE INFORMATION

About PEEK99 About PPS.....99 Chemical resistance 96-98

RELATED PRODUCTS 1/16" OD tubing for high pressure applications 5-8 PEEK starter kit90 Color-Sleeve adapters . 17



1/32" and 1/16" tightening tools for PEEK fittings.....89





HIGH PRESSURE FITTINGS POLYMERIC

PEEK one-piece fingertight fittings – color-coded

SPECS

- For 1/16" OD
- tubing Material:
- PEEK 10-32 threads
- Tolerance: ±0.05 mm (.002")
- Pressure rating: <350 bar (5000 psi) (Varies with tubing material and ID)
- Fingertight up to 350 bar (5000 psi)
- Excellent chemical and mechanical properties
- One-piece no ferrule required
- Biocompatible

Our PEEK fingertight fittings are available in six colors, for easy identification of tubing lines. They are rated to 350 bar (5000 psi) and can be used in virtually any type of 10-32 thread HPLC fitting detail on the market.

Sold in packages of 5.

Color	Product No.		1000
Natural Black Red	JR-55020-5 JR-55021-5 JR-55022-5	5/16"	12.1mm
Yellow Blue Green	JR-55023-5 JR-55024-5 JR-55025-5		

PEEK one-piece fingertight fittings

22.0 mm

SPECS

■ For 1/16" OD

10-32 threads Tolerance:

±0.05 mm (.002") Pressure rating: <350 bar

(5000 psi) (Varies with tubing material and ID)

tubing

Material:

PEEK

Natural PEEK versions fingertight up to 350 bar (5000) psi)

- One-piece no ferrule required
- Biocompatible
- Four styles, machined for extra precision

Sold in packages of 5.

Description	Product No.
Standard Short Long Narrow hex-head/fingertight	JR-5502-5 JR-5504-5 JR-5507-5 JR-5508-5
Narrow nex-neau/inigertight	JU-2200-2



TECH TIP

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

MORE INFORMATION

About CTFE99 Chemical resistance 96-98

22.0 mm 12.0 mm Standard

Long

25.1 mm



Short

12.0 mm

Narrow hex-head/fingertight

17.1 mm

12.0 mm

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10-32

10-32

HIGH PRESSURE FITTINGS ■ POLYMERIC

PEEK no-twist "one-piece" fittings

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

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



Since the ferrule is not machined onto the nut, it can be made from a different material. We offer several PEEK nuts, with ferrules of PEEK, CTFE, or glass-filled PEEK.

Sold in packages of 5.

Ferrule material:	PEEK	Glass-filled PEEK	CTFE
Description	Product No.	Product No.	Product No.
Fingertight	JR-ZNF1FPK-5	JR-ZNF1FPKG-5	JR-ZNF1FKF-5
Hex, short	JR-ZNF1PK-5	JR-ZNF1PKG-5	JR-ZNF1KF-5
Hex, medium	JR-MZNF1PK-5	JR-MZNF1PKG-5	JR-MZNF1KF-5
Hex, long	JR-LZNF1PK-5	JR-LZNF1PKG-5	JR-LZNF1KF-5
Replacement ferrules	JR-ZNF1PK-F-5	JR-ZNF1PKG-F-5	JR-ZNF1KF-F-5
Replacement ferrules	JK-ZINF IPK-F-J	JR-ZINF IPKG-F-5	JK-ZINF I KF-F-J



and ID) OPTIONS Optional ferrule materials available: FEP, PFA, PTFE, and glass-filled PTFE.

SPECS

tubing

or CTFE 10-32 threads

 Materials: Nut: PEEK

For 1/16" OD

Ferrule: PEEK,

glass-filled PEEK,

Pressure rating:

tubing material

<350 bar

(5000 psi) (Varies with

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

Contact us for

RELATED PRODUCTS

1/16" OD tubing for high pressure applications 5-8 PEEK starter kit90 ValvTool for tightening hex-head fittings88 Color-It fingertight adapters......17





Nuts Ferrules

HIGH PRESSURE FITTINGS ■ POLYMERIC

PEEK ferrules

SPECS

- For 1/16" OD tubing
- Material: PEEK, special black
- Pressure rating on SS tubing and with SS nut: (preliminary) 1170 bar (17,000 psi)

NEW

- Biocompatible 1/16" ferrule for ultra-high pressuresAlternative to titanium ferrules in applications with
- titanium valves Excellent in combination with stainless nuts
- Sold in packages of 5.



PEEK nuts with single ferrules

SPECS

Material: PFFK

Pressure rating:

<280 bar

(4000 psi)

(Varies with

tubing material and ID)

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

Fingertight nuts have a knurled surface designed to allow sufficient sealing force to be applied to the ferrule without wrenches. Hex style nuts allow wrench tightening; however, since they are polyeric, they can break, and are recommended for use only when space is limited and fingers will not fit.



Sold in packages of 5.

1/16" fingertight

	Tubing OD	Description	Thread	Product No.
Nuts	1/32" 1/16" 1/8"	Fingertight Fingertight Hex-head	6-40 10-32 5/16-24	JR-ZN.5FPK-5 JR-5570-5 JR-ZN2PK-5
Single				
ferrules	1/32"			JR-ZF.5PK-5
	1/16"			JR-5003-5
	1/8"			JR-ZF2PK-5
10 m	m 17.5 m	16 mm		

1/8" hex-head

MORE INFORMATION About PEEK99



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UHPLC

10-32

Nuts Ferrules

SPECS For 1/16" OD

tubing

Material: PEEK

10-32 threads

<420 bar (6000 psi)

(Varies with

and ID)

tubing material

Pressure rating:

HIGH PRESSURE FITTINGS ■ POLYMERIC

PEEK nuts with double ferrules

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

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

Sold in packages of 5.

Description		Product No.
1/16" nuts	Hex-head, short Hex-head, long	JR-5511-5 JR-5510-5
	Fingertight Universal fingertight*	JR-5580-5 JR-5503-5*
1/16" ferrule	Double	JR-5004-5

*Limited to existing stock.



Hex-head, short





Fingertight

Universal fingertight





10-32

Plugs and caps

HIGH PRESSURE FITTINGS POLYMERIC

PEEK plugs and caps

SPECS

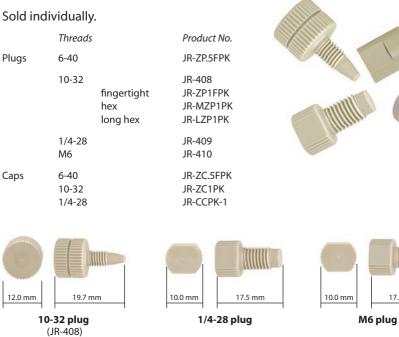
Material:

PEEK

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

Pressure rating: <350 bar (5000 psi) (Varies with

tubing material and ID)







17.5 mm

1/4-28 connectors

SPECS

HIGH PRESSURE FITTINGS POLYMERIC



Nut, ferru	le, and	bushing
------------	---------	---------

- High pressure rating up to 480 bar (7000 psi) with 1/16" tubing
- For 1/4-28 connections
- Available for 1/32" and 1/16" tubing

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

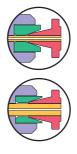
Sold in packages of 10.

Order nuts and bushing/ferrules separately.

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



1/4-28



LOW PRESSURE 1/4-28 NUTS AND FERRULES

1/4-28 PPS hex-head nuts are available with three different sealing designs for flangeless and flanged fittings41



TECH TIP

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



HIGH PRESSURE FITTINGS POLYMERIC

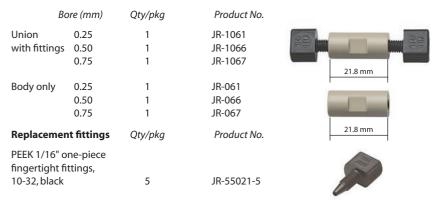
PEEK unions

- **SPECS**
- For 1/16" OD tubing
- Material:
 PEEK
- 10-32 threads
- Pressure rating:
 <350 bar
 (5000 psi)
 (Varies with tubing material and ID)
- Easy connection of transfer/solvent lines
- Low dead volume
- Completely inert and biocompatible

VICI Jour PEEK unions are usable with most common organic and inorganic HPLC solvents without risking corrosion, metal contamination, or protein degradation that might occur with stainless steel.

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

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



PEEK bulkhead unions

SPECS

tubing

Material:

PEEK

■ For 1/16" OD

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

10-32 threads
 Pressure rating:
 <350 bar
 (5000 psi)
 (Varies with
 tubing material
 and ID)

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

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

Includes fittings.

Bore (mm) 0.25 0.50 0.75	Qty/pkg 1 1 1	Product No. JR-ZBU1CFPK JR-ZBU1MFPK JR-ZBU1FPK	22.1 mm	
Replacement fittings	Qty/pkg	Product No.		
PEEK 1/16" one-piece fingertight fittings,				
10-32, black	5	JR-55021-5		RELATED PRODUCTS
JAM-Nut replacement mounting nut for bulkhead fittings	1	JR-CBN		Low pressure PEEK 1/4-28 unions44 PEEK one-piece fingertight fittings 19-21



10-32

HIGH PRESSURE FITTINGS ■ POLYMERIC

PEEK reducing unions

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

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

Includes fittings.

Tubing OD	Bore (mm)	Qty/pkg	Product No.	
1/16" to 1/32"	0.25	1	JR-ZRU1.5FPK	
1/8" to 1/16"	0.75	1	JR-ZRU21FPK	
PEEK replacement fittings <i>Qty/pkg Product No.</i>				
For 1/16" to 1/32" reducing unions				
1/16" One-p	piece fitting, blac	k 5	JR-55021-5	
1/32" Finge	rtight nut	1	JR-ZN.5FPK	
1/32" Ferrul	e	1	JR-ZF.5PK	
For 1/9" to 1/16" reducing unions				

For 1/8" to 1/16" reducing unions

1/8"	Hex-head PEEK nut	5	JR-ZN2PK-5
1/8"	PEEK ferrule	5	JR-ZF2PK-5
1/16"	One-piece fitting, black	5	JR-55021-5

- SPECS
- Material: PEEK
- Threads: 1/32":6-40 1/16":10-32 1/8":5/16-24
- Pressure rating:
 <350 bar
 (5000 psi)
 (Varies with tubing material and ID)



RELATED PRODUCTS Low pressure PEEK 1/4-28 reducing unions45



HIGH PRESSURE FITTINGS POLYMERIC

PEEK tees and crosses

SPECS

- For 1/16" OD
- tubing Material:
- PEEK 10-32 threads
- Body size:
 25.0 mm OD
 12.0 mm thick
- Pressure rating:
 <350 bar
 (5000 psi)
 (Varies with tubing material and ID)
- Easy connection of transfer/solvent lines
- Low dead volume
- Completely inert and biocompatible

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

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

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

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

Biocompatible mixing tee

- **SPECS**
- For 1/16" OD
- tubing Material: PEEK
- 10-32 threads
 Prossure ratio
- Pressure rating:
 <350 bar
 (5000 psi)
 (Varies with tubing material and ID)
- High pressure gradient mixing
- Post column reactions
- Completely biocompatible
- Built-in protein-friendly titanium filter, 10 μm

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

Mixing tee with fittings

Product No. JR-9000-0670

The two solvent streams are well-mixed in the vortex mixing chamber



TECH TIP

Use our color-coded onepiece fingertight fittings for easy solvent line identification.......20



RELATED PRODUCTS Low pressure 1/4-28 tees and crosses46 Low pressure 1/4-28 mixing tees47



PEEK adapters

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

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

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

Sold individually.

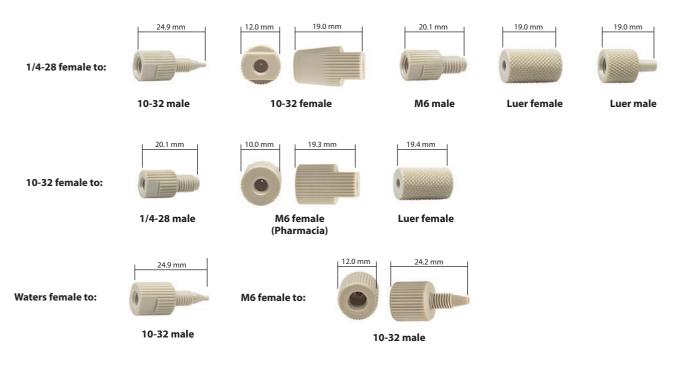
Description		Product No.
1/4-28 female to	10-32 male 10-32 female M6 male Luer female Luer male	JR-0612 JR-062 JR-0622 JR-0625 JR-0626
10-32 female to	1/4-28 male M6 female (Pharmacia*) Luer female	JR-0617 JR-5595 JR-0623
Waters female to	10-32 male	JR-0611
M6 female to	10-32 male	JR-5505
Female Luer to	1/4-28 10-32	JR-CFLAPK JR-ZUFLPK
Male Luer to	1/4-28	JR-CMLAPK



 Material: PEEK

Bore:
 0.40 mm

 Pressure ratings: M6, 1/4-28 <70 bar (1000 psi) Luer <35 bar (502 psi) (Varies with tubing material and ID)





* Pharmacia is a division of GE Healthcare.

High pressure fittings

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

High pressure stainless fittings index

Nuts

Valco nuts page 31
Valco nuts are available for 1/32",
1/16", and 1/8" tubing, in several
lengths.
Rheodyne [®] compatible nuts
These nuts are sized for 1/16"
tubing, and come in three lengths.

Ferrules

Valco	
Plugs and caps	2
Tees and crosses	
Tees	3
Crosses	3
Unions and reducing unions	
Unions	1
Reducing unions	
Imperial34	1
Imperial to metric NEW	5

DISCLAIMER

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

MORE INFORMATION

ChromBox kit91
HPLC parts kit with
PEEK and stainless
fittings and tubing
Fingertight adapters
Color-lt17
Color-Sleeve17
Nanovolume [®] high
pressure fittings36-39
Stainless starter kits 90
Tools for fittings 88-89



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SPECS

tubing Material:

Threads:

■ For 1/32", 1/16",

and 1/8" OD

Type 303 SS

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

1/8": 5/16-24

Pressure rating

with premium SS tubing and

156 f

UHPLC

HIGH PRESSURE FITTINGS ■ STAINLESS STEEL

Valco[®] stainless nuts

- 10

Excellent fit to Valco fitting details

- Different lengths available
- For 1/32", 1/16", and 1/8" OD tubing

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

Sold in packages of 5.

3/16 " 7.8 r	nm 1/	2 (4" 11 mm	1/4" 12.8 mm	1/4" 19.06 mm
		S. C. munit	Co Communi	
1/8"	Standard	JR-ZN2-5		
1/16"	Standard Medium Long	JR-ZN1-5 JR-MZN1-5 JR-LZN1-5		
1/32"	Standard	JR-ZN.5-5		(20,000 psi)
Tubing OD	Length	Product No.		1375 bar
				ZEIS6 ferrule:



1

Website NEW : w

Rheodyne[®] compatible stainless nuts

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

These nuts are for use with metal Rheodyne valves. Three different length nuts are available, in order to accommodate any possible connecting situation. The standard nut is suitable for easily accessible



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SPECS

- For 1/16" OD tubing
- Material:

and ID)

TZ/13

- Type 316 SS Threads: 10-32
- Pressure rating:
 <500 bar
 (7,250 psi)
 (Varies with tubing material

TECH TIP

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

MORE INFORMATION About stainless steel..100

RELATED PRODUCTS

Ferrules
Rheodyne 32
Valco32
Stainless steel
starter kit90
Stainless tubing 14-15
ValvTool for tightening
hex-head fittings 88
Color-It fingertight
adapters17



tight and difficult to reach areas, we recommend the long and extra long nut. Sold in packages of 5. *Tubing OD Length Product No.*

connections (couplers, detectors, columns, etc.) For very



.chromalyti



ECH nology Pty Ltd

HIGH PRESSURE FITTINGS ■ STAINLESS STEEL

Valco[®] stainless ferrules

- **SPECS**
- For 1/32", 1/16", and 1/8" OD tubing
- Material: Type 316 SS
- Pressure rating: 1375 bar (20,000 psi) (Varies with tubing material and ID)
- Excellent fit to Valco fitting details
- For 1/32", 1/16", and 1/8" OD tubing

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

Sold in packages of 5.

Size		Product No.
1/32"		JR-ZF.5-5
1/16"	ALC: NO	JR-ZF1-5
1/8"	Constanting of the local division of the loc	JR-ZF2-5

Rheodyne[®] compatible stainless ferrules

SPECS ■ For 1/16" OD tubing	 Excellent fit to Rheodyne fitting details For 1/16" OD tubing 			
 Material: Type 316 SS 	These ferrules are for use with metal Rheodyne valves.			
Pressure rating: <500 bar	Sold in packages of 5.			
(7,250 psi)	Description Product No.			
(Varies with tubing material	Standard ferrule DR-59-5			
and ID)	2-step Rheodyne- type ferrule JR-60-5			

Stainless steel plugs

SPECS Use a plug to close off an usused port in a valve, manifold, ■ For 1/16", and or HPLC column. The standard stainless plug consists of 1/8" OD tubing a zero volume nut with a ferrule made up on a piece of Material: solid rod. 1/16": SS 316 1/8": SS 313 Sold individually. Threads: Tubing OD Product No. 1/16": 10-32 1/8": 5/16-24 1/32" JR-ZP.5 3/8" 28.7 mm 12 5 mm 19.8 mm 1/16" JR-ZP1 1/8" JR-ZP2 1/32" plug 1/16" plug 1/8" plug Stainless steel caps UHPLC **SPECS** Use a cap to close off a tube with a ferrule and internal ■ For 1/16", and nut already made up. A cap is essentially a piece of hex 1/8" OD tubing stock with a zero volume fitting detail machined into it, Material: but with no through-hole. Type 303 SS Threads: Sold individually.

14.0 mm

3/16" hex (body)

1/32" cap

32 www.vici-jour.com VICI AG Internation

Tubing OD Product No.

JR-ZC.5

JR-ZC1

JR-ZC2

1/32"

1/16"

1/8"

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

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25.7 mm

11.1 mm hex (body)

1/8" cap

RELATED PRODUCTS

UHPLC PEEK ferrules ... 22

19.6 mm

1/4" hex (body)

1/16" cap

UHPLC

UHPLC

HIGH PRESSURE FITTINGS ■ STAINLESS STEEL

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

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

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

Stainless tees

UHPLC

SPECS ■ For 1/16" OD tubing Material: Body Type 316 SS Nuts Type 303 SS Ferrules 316 SS Pressure rating: 1375 bar (20,000 psi) (Varies with tubing material and ID)



VICI stainless steel tees join three solvent lines.				
Three nuts and ferrules ship with each tee.				
Description	Bore (mm)	Qty/pkg	Product No.	
1/16" tee	0.25	1	JR-ZT1C	
	0.50	1	JR-ZT1M	
	0.75	1	JR-ZT1	
Replacement nut		5	JR-ZN1-5	
Replacement ferrule		5	JR-ZF1S6-5	

ree nuts and ferrules ship with each tee.								
scription	Bore (mm)	Qty/pkg	Product No.					
l 6″ tee	0.25 0.50 0.75	1 1 1	JR-ZT1C JR-ZT1M JR-ZT1					
placement nut		5	JR-ZN1-5					
placement ferrule		5	JR-ZF1S6-5					

Stainless crosses

VICI stainless steel crosses join four solvent lines.							
Four nuts and ferrules ship with each tee.							
Description	Bore (mm)	Qty/pkq	Product No.				

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

UHPLC

SPECS

- For 1/16" OD tubing Material:
- Body Type 316 SS Nuts Type 303 SS Ferrules 316 SS
- Pressure rating: 1375 bar (20,000 psi) (Varies with tubing material and ID)

MORE INFORMATION

About stainless steel..100

RELATED PRODUCTS

Open end wrench 89 Stainless steel starter kit.....90 ValvTool for tightening hex-head fittings 88



HIGH PRESSURE FITTINGS ■ STAINLESS STEEL

- Easy connection of solvent lines
- Low dead volume

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

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

Stainless unions

- **SPECS**
- For 1/16" OD tubing
- Material: Body Type 316 SS Nuts Type 303 SS
- Ferrules 316 SS Pressure rating: 1375 bar (20,000 psi) (Varies with tubing material and ID)

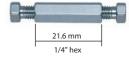
For 1/16" OD tubing

Choice of four bores

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

Two nuts and ferrules ship with each union.

Description Bore (mm)	Qty/pkg	Product No.
1/16" union 0.15 0.25	1 1	JR-ZU1XC JR-ZU1CS6
0.25	1	JR-ZUTCS6 JR-ZU1MS6
0.75	1	JR-ZU1S6
Replacement nut	5	JR-ZN1-5
Replacement ferrule	5	JR-ZF1S6-5



Stainless reducing unions

SPECS

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

- Material: Body Type 316 SS Nuts Type 303 SS
- Ferrules 316 SS Pressure rating: 1375 bar (20,000 p.ci)
- (20,000 psi) (Varies with tubing material and ID)

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

Imperial

Two nuts and ferrules ship with each union.

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



UHPLC

UHPLC

tubing.





RELATED PRODUCTS



SPECS

Material:

Ferrules

OD

1/8"

Body Type 303 SS Nuts Type 303 SS

Tube reducing

1/32" to 1.0 mm

1/16" to 2.0 mm

Pressure rating:

1375 bar (20,000 psi)

(Varies with tubing material and ID)

to 3.0 mm

HIGH PRESSURE FITTINGS ■ STAINLESS STEEL

Stainless reducing unions NEW Imperial to

Imperial to metric

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

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

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

Two nuts and ferrules ship with each reducing union.

Description	Bore (mm)	Threads	Qty/pkg	Product No.
Reducing union				
1/32" to 1.0 m	m 0.25	6-40 to 10-3	2 1	JR-096
1/16" to 2.0 m	m 0.75	10-32	1	JR-082
1/8" to 3.0 m	m 0.75	5/16-24	1	JR-086
Description	Size	Threads	Qty/pkg	Product No.
Replacement nut	1/32"	6-40	5	JR-ZN.5-5
	1/16"	10-32	5	JR-ZN1-5
	1/8"	5/16-24	5	JR-ZN2-5
	for 1.0 mm	10-32	5	JR-ZN1-5
	for 2.0 mm	10-32	5	JR-80-5
	for 3.0 mm	5/16-24	5	JR-ZN2-5
Replacement ferrule	1/32"		5	JR-ZF.5S6-5
	1/16"		5	JR-ZF1S6-5
	1/8"		5	JR-ZF2S6-5
	1.0 mm	NEW	5	JR-097-5
	2.0 mm	NEW	5	JR-083-5
	3.0 mm	NEW	5	JR-087-5





13 mm 7/16" 31 mm 1/8" to 3.0 mm

 Image: Non-state
 Image: Non-state<

Metric ferrules

WRENCH SIZE FOR BODY FLAT

 Wrench Reducing size
 P/N

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

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

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



UHPLC

316 SS

High pressure fittings = FOR 360 MICRON AND 1/32" TUBING

VICI Nanovolume[®] fittings generally have bore sizes of 100-150 µm (.004" - .006"), with some as small as 50 µm (.002"). The minimal transfer volume contributed by Nanovolume[®] components makes them especially beneficial in applications with flow rates in the µl/min range, when the transfer volume can be critical.

High pressure Nanovolume® fittings index

1/32" Nanovolume® Fittings

Nuts, ferrules, unions, reducing unions37

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

360 Micron Nanovolume® Fittings

For PEEK or FS tubing, <10K psi	38
For fused silica tubing, 10K psi	39
For metal tubing, <20K psi	39

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

DISCLAIMER

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



HIGH PRESSURE FITTINGS ■ NANOVOLUME®



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

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

VICI Nanovolume connectors include our one-piece fingertight fittings for 1/32" OD tubing, featuring our

patented* collapsible ferrule. PEEK ferrules for use with our external nuts also feature the collapsible, grooved design. To avoid potential confusion, all fittings utilizing the Cheminert collapsible ferrule are made of black PEEK; fittings with a standard Valco ZDV fitting detail are natural PEEK.

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

SPECS

For 1/32" OD

1/32"

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

Nanovolume® fittings

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

Nut/ferrule	1/32" external nu	1/10 It externa		1/16" to 1/32" reducing union
Reducing union	1/4"	9.5 mm		
Union (external to internal)	1/32" 1/16" to 1/32"	JR-C-NEU.5XFPK	JR-C-NEU.5FPK JR-C-NERU1FPK	±0.05mm (.002")
Bore size:	Tubing OD	100 micron Product No.	150 micron Product No.	(Varies with tubing material and ID) Tolerances:
Ferrule, collapsible	1/32" 🗰 1/16"	JR-ZGF.5PK JR-ZGF1PK		<350 bar (5,000 psi)
External nut	1/32" 1/16"	JR-C-EN.5FPKB JR-C-EN1FPKB		External nut 1/32" 8-36 1/16" 10-32 Pressure rating:
One-piece nut/ferrule	1/32"	JR-C-NNFFPK		Nut/ferrule 6-40
Description	Tubing OD	Product No.		PEEK Material: PEEK Threads:

Liners for 1/32" connectors

for use with fused silica tubing

JR-C-NL.15S-5 JR-C-NL.20S-5

JR-C-NL.25S-5

JR-C-NL.30S-5

JR-C-NL.35S-5

Use these natural PEEK liners to adapt 1/32" connectors to the most common sizes of fused silica tubing. The 27 mm liners are for internal nuts with collapsible ferrules. 10 mm liners are for use with external nuts. Sold in packages of 5.

27 mm liners			10 mm liners		
Use with internal nuts JR	R-C-NNFFPK or JI	R-C-NNFLFPK	Use with external n	ut JR-C-EN.5FPKB	
	For tubing OD	Prod No		For tubing OD	Prod No
	125 - 175 µm	JR-C-NL.15L-5		125 - 175 μm	JR-C-NL.1
	175 - 225 µm	JR-C-NL.20L-5		175 - 225 µm	JR-C-NL.2
	225 - 275 µm	JR-C-NL.25L-5		225 - 275 µm	JR-C-NL.2
	275 - 325 µm	JR-C-NL.30L-5		275 - 325 µm	JR-C-NL.3
	325 - 375 µm	JR-C-NL.35L-5		325 - 375 µm	JR-C-NL.3

MORE INFORMATION 360 µm Nanovolume®

fittings 38-39

CO	N۷	/ER	SI	10	٧S

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



HIGH PRESSURE FITTINGS ■ NANOVOLUME[®]

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

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

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

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



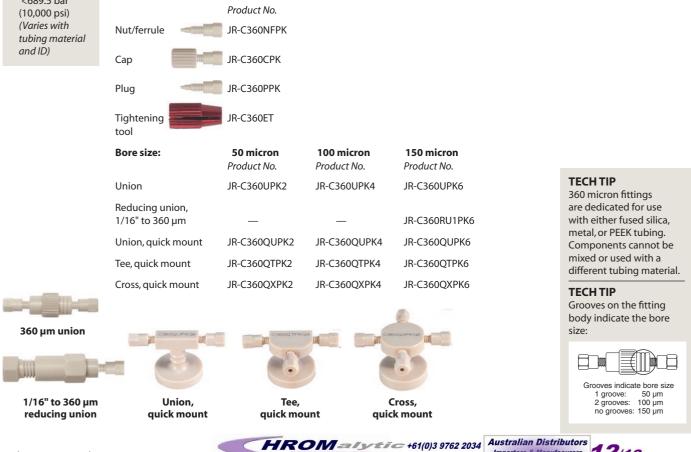
360 µm

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

SPECS

- For PEEK or FS tubing, 360 µm
- Material: PEEK
- Threads: 2-56
- Pressure rating: <689.5 bar (10,000 psi) (Varies with and ID)

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



Wohsite NEW

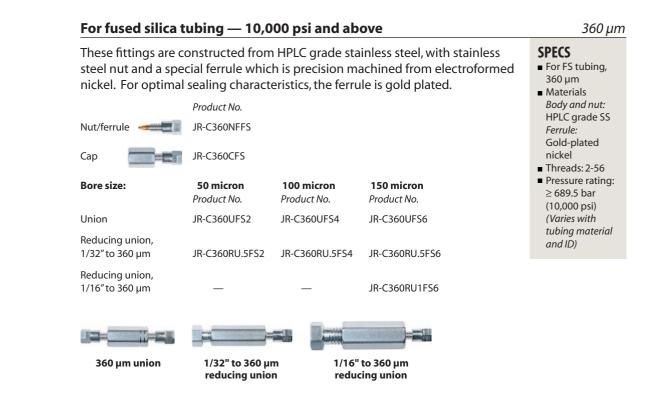
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HIGH PRESSURE FITTINGS ■ NANOVOLUME®

360 µm



For metal tubing — up to 20,000 psi

 CONVERSIONS

 50 μm
 = .002"

 100 μm
 = .004"

 150 μm
 = .006"

 0.25 mm
 = .010"

 0.50 mm
 = .020"

 0.75 mm
 = .030"

U 1	uding stainless s	teel nut and ferr	structed of HPLC grade rule. These fittings are nickel tubing.	SPECS ■ For metal tubing, 360 µm ■ Materials
	Product No.			HPLC grade SS
Nut/ferrule	JR-C360NFS6			Threads: 2-56Pressure rating:
Cap	JR-C360C			<1375 bar (20,000 psi) (<i>Varies with</i>
Bore size:	50 micron Product No.	100 micron Product No.	150 micron Product No.	tubing material and ID)
Union	JR-C360US62	JR-C360US64	JR-C360US66	
Reducing union, 1/32" to 360 μm	JR-C360RU.5S62	JR-C360RU.5S64	JR-C360RU.5566	
Reducing union, 1/16" to 360 μm	_	_	JR-C360RU1S66	
360 µm union	1/32" to 360 µı reducing unio		to 360 μm cing union	
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Low pressure fittings

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

Low pressure polymeric fittings index

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Plugs

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Adapters, polypropylene48

A wide offering of adapters, including male and female Luer to barbed, 10-32, and 1/4-28 male and female, plus many other combinations.

Micro valves for LC and GC.....49

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

Peristaltic tubing adapter set......49

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

FITTING DESIGNS

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

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

DISCLAIMER

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



1/4

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

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

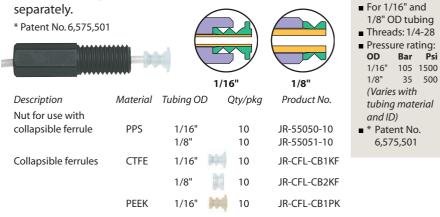
PPS hex-head nuts and collapsible ferrules (flangeless) 1/4-28

Patented* collapsible ferrules are not included. Order



1/4-28

24.0 mm



PPS hex-head nuts and inverted ferrules (flangeless)

Ferrules are not included. Order separately. SPECS For 1/32"–1/8"OD tubing Threads: 1/4-28 Pressure rating: OD Bar Psi Description Material Tubing OD Qty/pkg Product No. 105 1500 1/16" Nut for use with 1/8" 35 500 PPS inverted ferrule 1/32" 10 JR-55073-10 (Varies with 1/16" JR-55070-10 10 tubing material 1/8" JR-55071-10 and ID) 10 10 JR-55073-10 1.0 mm 2.0 mm JR-55072-10 10 JR-032-10 Inverted ferrules ETFE 1/32" **NEW** 10 1/16" 10 JR-041-10 1/8" JR-051-10 10 1.0 mm **NEW** 10 JR-031-10 2.0 mm **NEW** 10 JR-042-10 3.0 mm NEW 10 JR-049-10 3.0 mm 2.0 mm 1.0 mm

PPS hex-head nuts and washers (flanged connections) 1/4-28

Washers are not	included.	Order sepa	arately.		SPECS For 1/16" and 1/8" OD tubing Threads: 1/4-28 Pressure rating:
Description	Material	Tubing OD	Qty/pkg	Product No.	OD Bar Psi 1/16" 105 1500
Nut for flange/					
washer connection	PPS	1/16"	10	JR-55060-10	1/8" 35 500 (Varies with
		1/8"	10	JR-55061-10	tubing material
Washer	PP	1/16"	10	JR-201926-10	and ID)
		1/8"	10	JR-201928-10	
Easy-Flange kit <i>(see p</i>	age 85)			JR-201540	
HROMA	ytic	+61(0)3 9762 20	134	ian Distributors	242

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HIGH PRESSURE 1/4-28 NUTS AND FERRULES

A PPS nut, PEEK ferrule, and stainless steel bushing allow a high pressure connection in a 1/4-28 flat-bottomed fitting detail......25





CHEMICAL RESISTANCE OF PPS

n – Sultable								
B = marginal								
C = not recommended								
Chemical class	Resistance							
Acids, organic	A							
Acids, inorganic	B/C*							
Aldehydes	A							
Alcohols	A							
Bases	В							
Esters	A							
Halogenated org.	A/B							
Hydrocarbons	A							
Ketones	A							
* Concentrated ha	logen acids							
See detailed che	emical							
resistance chart	96-98							

MORE INFORMATION About polymers ...99-100

PEEK fingertight nuts (flangeless)

- **SPECS**
- For 1/16" and 1/8" OD tubing
- Materials PPS Nut: Ferrules: ETFE
- 1/4-28 threads Pressure rating: OD Bar Psi 1/16" 105 1500 1/8" 35 500 (Varies with tubing material and ID)
- Compatible with all 1/4-28 flat-bottom ports Excellent chemical resistance
- For 1/16" or 1/8" OD tubing
- True fingertight no tools required

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

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

Ferrules are not included. Order separately.

Tubing OD: Description	Material	Qty/pkg	1/16" Product No.	1/8" Product No.
Nut for use with inverted ferrule	PEEK	10	JR-20124-10	JR-20116-10
Inverted ferrules	ETFE	10	JR-041-10	JR-051-10 📒







Color-coded fingertight nuts (flangeless)

SPECS

- For 1/16" and 1/8" OD tubing Materials
- Nut: Polyacetal Ferrules: ETFE 1/4-28 threads
- Pressure rating: OD Bar Psi 70 1000 1/16" 1/8" 35 500 (Varies with tubing material and ID)

1/4-28

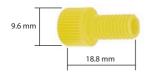
- Polyacetal economical alternative to PEEK
- Compatible with all 1/4-28 flat-bottom ports
- For 1/16" or 1/8" OD tubing
- True fingertight no tools required

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



Tubing OD:			1/16"	1/8"
Description	Color	Qty/pkg	Product No.	Product No.
Nuts	Green	10	JR-040GR-10	JR-050GR-10
	Blue	10	JR-040BL-10	JR-050BL-10
	Yellow	10	JR-040YL-10	JR-050YL-10
	Red	10	JR-040RE-10	JR-050RE-10
	White	10	JR-040WH-10	JR-050WH-10
	Black	10	JR-040BK-10	JR-050BK-10
1" long nuts	White	10	JR-040WL-10	JR-050WL-10
Inverted ETFE ferrules		10	JR-041-10	JR-051-10





TECH TIP

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



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16.5 mm

Color-coded fingertight nuts (flanged connections)

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

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

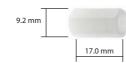
Six colors are available.

Tubing OD: Description	Color	Qty/pkg	1/16" Product No.	1/8" Product No.	
Nuts	Green	10	JR-202123-10	JR-202143-10	
	Blue	10	JR-202122-10	JR-202142-10	\smile
	Yellow	10	JR-202124-10	JR-202144-10	
	Red	10	JR-202125-10	JR-202145-10	
	White	10	JR-201094WH-10	JR-201580WH-10	I
	Black	10	JR-201094BK-10	JR-201580BK-10	
1" long nuts	White	10	JR-202120-10	JR-202119-10	
-	Black	10	JR-202118-10	JR-202121-10	
Polypropylene washer		10	JR-201926-10	JR-201928-10	



TECH TIP Use our Easy-Flange kit for forming flanges on tubing85





flanged nuts separately.

Union body, polyamide

Description

Union body for flanged connections

For flanged 1/4-28 flat-bottom connections

Through bore low pressure union

Completely inert and biocompatible

Flanged fittings are not included.

■ For 1/16" or 1/8" OD tubing



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

Product No.

JR-060-5

Qty/pkg

5

1/4-28

- SPECS
- For 1/16" and 1/8" OD tubing
- Material: Polyamide
- 1/4-28 threads



1/4-28

SPECS

For 1/16" and 1/8" OD tubing
Material:

polypropylene

1/4-28 threadsPressure rating:

<30 bar

(435 psi)

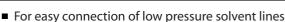
(Varies with

tubing material and ID)

Fiberglassreinforced

PEEK unions

- **SPECS**
- For 1/16" and 1/8" OD tubing
- Materials
 Body: PEEK
 Nut: PPS
- *Ferrules:* ETFE ■ 1/4-28 threads
- Pressure rating: **OD Bar Psi** 1/16" 105 1500 1/8" 35 500 (Varies with tubing material and ID)



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

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

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

A union with fittings includes:

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

Bore (mm) 0.50 0.75	Tubing OD 1/16"	Qty/pkg 1
	1/16"	1
0.75		1
0.75	1/8"	1
1.30	1/8"	1
0.50	1/16"	1
0.75	1/8"	1
1.30	1/8"	1
	Tubing OD	Qty/pkg
s nuts	1/16"	10
	1/8"	10
ferrules	1/16"	10
	1/8"	10
	1.30 0.50 0.75 1.30	1.30 1/8" 0.50 1/16" 0.75 1/8" 1.30 1/8" <i>Tubing OD</i> s nuts 1/16" 1/8" ferrules 1/16"

PEEK bulkhead unions

SPECS

- For 1/16" and 1/8" OD tubing
- Materials
 Body: PEEK
 Nut: PPS
 Ferrules: ETFE
- 1/4-28 threads
 Pressure rating:
 OD Bar Psi
 1/16" 105 1500
 1/8" 35 500
 (Varies with tubing material and ID)



Panel mounting (10 mm hole required, max 9 mm thick) For easy connection of low pressure solvent lines Low dead volume

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

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

They are sold complete with fittings, and include:

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



JR-55070-10

JR-55071-10

JR-041-10

JR-051-10

1/4-28

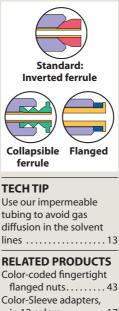
	Bore (mm) Tubing OD	Qty/pkg	Product No.
Bulkhead union with fittings	, 0.75 1.50	1/16" 1/8"	1 1	JR-CBUMPK JR-CBULPK
Spare parts		Tubing OD	Qty/pkg	Product No.
PPS flangeless nuts		1/16"	10	JR-55070-10
		1/8"	10	JR-55071-10
Inverted ETFE fe	rrules	1/16"	10	JR-041-10
		1/8"	10	JR-051-10





TECH TIP

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



Color-Sleeve adapters,
in 12 colors 17
High pressure
PEEK unions 26
PPS hex-head
flanged nuts41

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1/4-28

PEEK reducing unions

Connects 1/16", 1/8", 1 mm, 2 mm, and 3 mm OD polymeric tubing

NEW

Completely inert and biocompatible

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

A reducing union with fittings includes:

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

PEEK reducing unions

Tubing OD	Bore (mm)	Qty/pkg	Product No.
Reducing union, with fitting	s		
1/32" to 1 mm	0.50	1	JR-0640
1/16" to 2 mm	0.75	1	JR-0680
1/8" to 3 mm	1.30	1	JR-0650
Spare parts	Tubing OD	Qty/pkg	Product No.
PPS flangeless nuts	1/16"	10	JR-55070-10
-	1/8"	10	JR-55071-10
	1.0 mm/ 1/3	2" 10	JR-55073-10
	2.0 mm	10	JR-55072-10
Inverted ETFE ferrules	1/32"	10	JR-032-10
	1/16"	10	JR-041-10
	1/8"	10	JR-051-10
	1.0 mm	10	JR-031-10
	2.0 mm	10	JR-042-10
	3.0 mm	10	JR-049-10
	0		

3.0 mm

2.0 mm **Metric ferrules**

1.0 mm

Imperial, 1/2-20 to 1/4-28

	-				-
 Connects 1/4 Low dead vo Completely 	olume		0		SPECS For 1/4" to 1/8" OD tubing, flangeless
include: • One 1/8" f • One 1/8" f • One 1/4" f • One 1/4" f	langeles errule, C langeles	s nut, whit TFE s nut, poly	e polypro	ith fittings, and pylene Product No.	connections Materials Body: PEEK Nuts: 1/8" PP 1/4" Polyacetal Ferrules: CTFE Threads: 1/2-20 to 1/4-28
Reducing union with fittings Spare parts Tubing OD Descr	1.5	1/4" to 1/8"	- 7 1 5	Product No.	 Pressure rating: <35 bar (500 psi) (Varies with tubing material and ID)
5		white propyle		JR-CFL-2W-S	



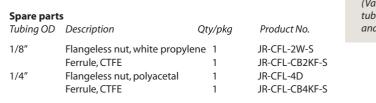
TECH TIP

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

RELATED PRODUCTS Color-Sleeve adapters,

in 12 colors 17







SPECS ■ For 1/32"–1/8"OD

Imperial to metric, 1/4-28

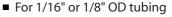
- tubing, flangeless connections Materials
- Body: PEEK Nuts: PPS Ferrules: ETFE
- 1/4-28 threads
- Pressure rating: ≤48 bar (700 psi) (Varies with

and ID)

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PEEK tees, crosses, and manifolds

- **SPECS**
- For 1/16" and 1/8" OD tubing
- Materials PEEK Body: Nut: PPS Ferrules: ETFE
- 1/4-28 threads Body sizes:
- see chart below Pressure rating: OD Bar Psi 105 1500 1/16" 1/8" 35 500 (Varies with tubing material and ID)



- Flat-bottomed 1/4-28 fitting details
- Completely inert and biocompatible

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

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

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

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

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

Sold individually.

5010 11101					
		Tubing OD	Bore (mm)	With fittings Product No.	Body only Product No.
Tees		1/16"	0.50	JR-6029	JR-6034
		1/8"	0.80 1.50	JR-6030 JR-6031	JR-6032 JR-6033
		1/0	1.50	JK-0031	JK-0022
Crosses		1/16"	0.50	JR-6039	JR-6044
		1 /0"	0.80	JR-6040	JR-6042
		1/8"	1.50	JR-6041	JR-6043
Manifolds	5 ports	1/16"	0.75	JR-C5M1PK	JR-B-C5M1Pk
		1/8"	1.50	JR-C5M2PK	JR-B-C5M2Pk
	9 ports	1/16"	0.75	JR-C9M1PK	JR-B-C9M1Pk
		1/8"	1.50	JR-C9M2PK	JR-B-C9M2Pk
Spare part	ts	Tubing OD	Qty/pkg	Product No	
PPS flangel	less nuts	1/16"	10	JR-55070-10	
		1/8"	10	JR-55071-10	
Inverted ET	FE ferrule	s 1/16"	10	JR-041-10	
		1/8"	10	JR-051-10	
					•
				C 1078	
	100				-
			110, 2		

TECH TIP

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kness mm mm mm

Use our impermeable tubing to avoid gas diffusion in the solvent lines13

RELATED PRODUCTS
Color-Sleeve adapters,
in 12 colors 17
High pressure

in 12 colors 17
High pressure
PEEK tees
PPS hex-head
flanged nuts41





BODY SIZES

	Diameter	Thickness
Tees	25.0 mm	17.1 mm
Crosses	25.0 mm	17.1 mm
Manifolds		
5 ports	25.0 mm	17.1 mm
9 ports	25.0 mm	28.6 mm

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PEEK mixing tees

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

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

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

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

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

Sold individually.

	Tubing OD	Bore (mm)	Product No
Mixing tee,	1/16"	0.75	JR-CM1XPK
with fittings	1/8"	1.50	JR-CM2XPK
Body only	1/16"	0.75	JR-B-CM1XPK
	1/8"	1.50	JR-B-CM2XPK
Spare parts	Tubing OD	Qty/pkg	Product No
PPS flangeless nuts	1/16"	10	JR-55070-10
	1/8"	10	JR-55071-10
Inverted ETFE ferrule	s 1/16"	10	JR-041-10
	1/8"	10	JR-051-10

1/4-28

SPECS

- For 1/16" and 1/8" OD tubing
- Materials
 Body: PEEK
 Nut: PPS
 Ferrules: ETFE
- 1/4-28 threads
- Pressure rating:
 OD Bar Psi
 1/16" 105 1500
 1/8" 35 500
 (Varies with tubing material and ID)
- Mixing volume Bore Volume
 0.75 mm 25 µl
 1.50 mm 100 µl







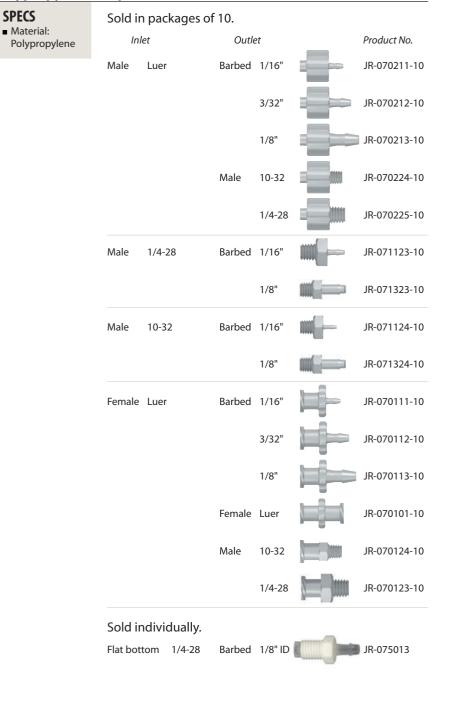


Plugs and adapters

LOW PRESSURE FITTINGS POLYMERIC

Polypropylene plugs 1/4-28 or 10-32 **SPECS** Sold in packages of 10. Material: Description Product No. Polypropylene ■ 10-32 or 1/4-28 10-32 male JR-072450-10 threads 1/4-28 male JR-072350-10 1/4-28 male, flat bottom JR-201999-10

Polypropylene adapters



RELATED PRODUCTS High pressure PEEK adapters 29 High pressure plugs ... 24

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"T" flow path

180° flow path

90° flow path

3 PORT

Product No. JR-PTAS

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2 PORT

3 PORT

2 PORT

LOW PRESSURE FITTINGS POLYMERIC

Micro valves for GC and LC

Compact 1" design

"T" flow path

90° flow path

Spare parts

Collapsible

ferrules

Nuts

180° flow path 2 ports

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

3 ports

4 ports

4 ports

2 ports

3 ports

4 ports

Material

PPS

PEEK

CTFE

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

Product No.

JR-660100

JR-660110

JR-660200

JR-660210

JR-660300

JR-660310 JR-660320

1/16"

1/8"

1/8"

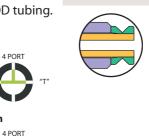
Tubing OD Qty/pkg

1/16" 💓 10

10

10

10



4 PORT

SPECS

For 1/16" and

Materials

Wetted

Body:

Nuts:

parts:

1/8" OD tubing

Ferrules: CTFE 1/4-28 threads

1.50 mm bore

Pressure rating:

see notes at left

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

MICRO VALVE
PRESSURE RATINGS
200

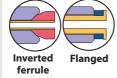
- 200 psi gas Tested with helium using 1/16" OD x 0.84 mm ID PTFE tubing with PEEK collapsible ferrules
- 500 psi liquid Tested with isopropanol using 1/8" OD x 0.75 mm ID PTFE tubing with CTFE collapsible ferrules

TECH TIP

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



Collapsible ferrule



TECH TIP

Use our impermeable tubing to avoid gas diffusion in the solvent

RELATED PRODUCTS

Color-Sleeve adapters, in 12 colors 17



High pressure PEEK tees... PPS hex-head flanged nuts.....41

Peristaltic tubing adapter set

- For connecting soft tubing to PTFE and PTFE-like tubing
- Works with peristaltic tubing up to 4.50 mm OD

Product No.

JR-55050-10

JR-55051-10

JR-CFL-CB1PK

JR-CFL-CB2KF

- For 1/16" and 1/8" PTFE and PTFE-like tubing
- Biocompatible
- Low dead volume

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

The adapter includes:

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

Sold individually.

.chromalyti

Wohsite NEW .

PEEK adapter for peristaltic to PTFE tubing connection



1/4-28

1/4-28

PEEK,

PTFE

POM

PPS

- SPECS For 1/16" and 1/8" OD tubing
- Materials Body: PEEK Bushings: PPS Nut: PPS Ferrules: ETFE
- 1/4-28 threads
- 1.50 mm bore
- Body size: 28 mm long 12 mm diameter.



Filters **AND MOBILE PHASE FILTERS**

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

Filters index

Low pressure filters

50
51
51
52
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53
53

In-line filter cartridges

SPECS

 Materials Cartridge: PTFE/CTFE Filter screen: 316 stainless

■ 1/4-28 detail

Dimensions

Tolerances

- Easy to replace
- Compact design
- Three porosity options

■ Fit all 1/4-28 fitting details

High pressure filters PEEK high pressure filters

Stainless UHPLC filters......56

Stainless inline filter......57

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

OD 5.20 mm Thickness 2.03 mm Bore 0.8 mm	Pore size	Maximum flow rate *	Qty/pkg	Product No.	
Filter surface diameter 2 mm	2 µm	30 ml/min	5	JR-CFE-S2-5	C
Tolerances	10 µm	30 ml/min	5	JR-CFE-S10-5	
±0.05 mm (.002")	75 µm	30 ml/min	5	JR-CFE-S75-5	(

NOTES

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

TECH TIP

Low pressure

We recommend using
these in-line filter
cartridges in combination
with our low pressure
fittings:
PEEK unions
Tees and crosses46
Manifolds 46
Micro valves

DISCLAIMER

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



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PTFE

Low pressure

Last Drop mobile phase filters

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

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

PTFE/ Frits: 316 SS/PE Stepped tubing version is for 1.5, 2.2, and 3.5 mm ID tubing

SPECS

Materials

Body:

Fitting version (for 1/8" OD tubing) includes PEEK 1/4-28 nut with ETFE ferrule

The Last Drop mobile phase filter consists of a 316 stainless steel, PTFE 2.5 μ m,

or a hydrophobic PE filter element pressed into an inert PTFE housing. The top of the housing has a 1/4-28 nut and ferrule or a stepped PEEK fitting connector which slips into 1.5, 2.2, or 3.5 mm ID pump inlet lines.

Connector type:			Stepped tubing connector	Fitting connector			
Filter material	Pore size	Maximum flow rate *	Product No.	Product No.			
PTFE	2.5 µm	1.2 ml/min	JR-9000-0520	JR-9000-0520F	23.5 mm		
	5 µm	2.6 ml/min	JR-9000-0521	JR-9000-0521F			The second second
	10 µm	3.5 ml/min	JR-9000-0522	JR-9000-0522F			
Polyethylene	10 µm	11 ml/min	JR-9000-0522H	JR-9000-0522HF		22.0 mm	-
Stainless	2 µm	28 ml/min	JR-9000-0530	JR-9000-0530F			
	5 µm	30 ml/min	JR-9000-0531	JR-9000-0531F			
	10 µm	30 ml/min	JR-9000-0532	JR-9000-0532F			

NOTES

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

TECH TIPS

- Economy Last Drop mobile phase filters are easy to replace - easy to clean. Use ultrasound or replace with a new filter.
- Connect the Economy Last Drop filter with 1/8" OD/ 1.59 mm OD tubina: PFA tubing9 PTFE tubing12
- We recommend metal-free PTFE or glass filters for sensitive biochromatography applications where metal surfaces may corrode or interact with samples.

RELATED PRODUCTS Last Drop mobile phase filter/spargers 53

Economy Last Drop mobile phase filters

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

Wohsite NEW .

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

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

ECH nology Pty Ltd



- SPECS Materials
- Body: PTFE PTFE/ Frits:
- 316 SS For 1/8" OD
- tubing

19.0 mm



22.0 mm JR-4677-10



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Last Drop biocompatible glass mobile phase filters Low pressure

SPECS

 Materials Body: Glass Frit: Glass

For use with 1/8" tubing

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

The solution for biocompatibility and high flowrates

Includes 1/8" tubing connector.

Easy-push tubing connection



No-Met biocompatible mobile phase filters

- - Inert and biocompatible

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

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

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

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

Connection		Filter material	Pore size	Maximum flow rate *	Product No.	
1/4-28 nut and ferrule		PTFE Polyethylene	5 μm <20 μm	2.2 ml/min 500 ml/min	JR-32171 JR-32178	
Economy slip-on connection		Polyethylene	5 µm	300 ml/min	JR-32174	-
Replacement	Replacement element					
Filter material	Pore size	Maximum flowrate *	Product No.			
PTFE Polyethylene	5 μm <20 μm	2.2 ml/min 500 ml/min	JR-32172 JR-32179			

Low pressure

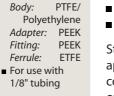


NOTES

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

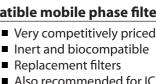
TECH TIPS

- Because they are hydrophobic, No-Met filters may initially require some priming with methanol or acetonitrile.
- Connect the No-Met filter with 1/8" OD/ 1.59 mm OD tubing: PFA tubing9 PTFE tubing12



SPECS

Materials



- Also recommended for IC

10.7 mm 55.0 mm





Last Drop filter/sparger

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

Spargers have a porosity of 10 microns.

The filter/sparger includes:

- PEEK tripod connector which slips into 1.5, 2.2, or 3.5 mm ID solvent lines
- 1/4-28 nut and ferrule for the sparging line

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

Low pressure

SPECS

PTFE
PTFE/
S/PE
oing
PEEK
PEEK
ETFE
bing
or
3.5
ng
3
FE
/8"

OD tubing

Low pressure

adapter: PTFE

adapter: PEEK Fittings:

SS316

SS316

PEEK

SPECS

Materials

Body:

Pipe:

Pipe

Fitting

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, in AUSTRALIA

au Tel: 03 9762 2034 .





Stainless steel mobile phase filter/helium sparger

- Ideal for helium sparging
- Four 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.

ETFE Ferrules: 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.

	Fitting type	Tubing/ pipe size	Pore size	Maximum flow rate *	Product No.		
	1/4-28 fitting	1/16"	2 μm 10 μm 20 μm	35 ml/min 35 ml/min 35 ml/min	JR-367016-2 JR-367016-10 JR-367016-20	9.5 mm	25.0 mm
TECH TIPS • We recommend metal free PTFE filters for sensitive		1/8"	2 μm 10 μm 20 μm	35 ml/min 100 ml/min 120 ml/min	JR-367008-2 JR-367008-10 JR-367008-20	 	45.0 mm
niters for sensitive biochromatography applications where metal surfaces may corrode or itneract with samples.	Pipe	1/8"	2 µm	50 ml/min	JR-3675-2	17.2 mm	20.5 mm 42.5 mm
impermeable tubing to prevent "regassing" of helium-degassed solvents.	Pipe	1/8"	2 μm 25 μm	95 ml/min 100 ml/min	JR-3678-2 JR-3678-25	22.0 mm	
RELATED PRODUCTS Last Drop mobile							38.0 mm
phase filters51						_	65.0 mm
			HRO	Malyti	= +61(0)3 9762 20	Importers	n Distributors & Manufacurers omfech.net.au

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PEEK in-line filter kit

SPECS

- For 1/16" OD tubing
- Materials
 Body: PEEK
 Frit: Titanium, Polyethylene
- 0.25/0.4 mm bore
- 10-32 threadsPressure rating:
- 4350 bar (< 5000 psi)</p>

 Replaceable metal-free polyetheylene frits and biocompatible titanium frits

- 100% biocompatible
- Minimal hold-up volume
- Different porosities

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

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

Sold individually.

Frit material	Pore size	Internal volume (µL) *	Maximum flow rate **	Product No.
Titanium	0.5 μm 2 μm 5 μm 10 μm	9.50 11.85 12.7 13.2	25 ml/min 30 ml/min 30 ml/min 30 ml/min	JR-68247 JR-68253 JR-68256 JR-68257
Polyethylene	10 µm	13.9	30 ml/min	JR-68257PE





HPLC

Sure-Guard in-line filter kit

SPECS

- Materials
 Body: PEEK
 Frit: Stainless, Titanium
- 0.4 mm
 bore
 10-32 female
- to 10-32 male threads Pressure rating:
- <350 bar (< 5000 psi)

- Disposable filter guard
- Minimal hold-up volume
- Titanium (biocompatible) and stainless steel frits, permanently pressed in place
- Two porosity options

The VICI Jour Sure-Guard disposable in-line filter offers an easy and inexpensive way to protect valuable columns against fines and particles. It is easily connected directly to any column, with an inlet for 1/16" OD tubes and 10-32 threads. The VICI Jour Sure-Guard can be changed in seconds without tools.

Sold in packages of three. Waters type filter kits are sold individually.

Frit material	Pore size	Internal volume *	Maximum flow rate **	Product No.	Product No. Waters type
Stainless steel	0.5 μm	0.45 μL	30 ml/min	JR-0611-SS05-3	JR-0641-SS05
	2 μm	0.61 μL	30 ml/min	JR-0611-SS2-3	JR-0641-SS2
Titanium	0.5 μm	0.45 μL	30 ml/min	JR-0611-TI05-3	JR-0641-TI05
	2 μm	0.61 μL	30 ml/min	JR-0611-TI2-3	JR-0641-TI2



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HPLC

SPECS

Materials

Frit: Titanium,

10-32 threads Pressure rating:

<350 bar

(< 5000 psi)

Polyethylene 0.25/0.4 mm

Body:

bore

PEEK precolumn filter kit

- 32.0 mm 16.0 mm
- 100% biocompatible
- Minimal hold-up volume
 - Replaceable metal-free polyetheylene frits and biocompatible titanium frits encased in PEEK
 - Different porosities

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

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

C 1				
Solo	linc	livid	เมล	IV
5010				

Frit material	Pore size	Internal volume (μL) *	Maximum flow rate **	Product No.
Titanium	0.5 µm	11.5	30 ml/min	JR-68258
	2 µm	13.85	30 ml/min	JR-68262
	5 µm	14.7	30 ml/min	JR-68263
	10 µm	15.2	30 ml/min	JR-68264
Polyethylene	10 µm	15.9	30 ml/min	JR-68264P

Replacement frits

for PEEK in-line and precolumn filter kits

Replacement frits for PEEK precolumn filter kit and PEEK in-line filter kit (see facing page).

Frit material	Pore size	Internal volume (µL) *	Qty/pkg	Product No.
Titanium	0.5 µm	6.87	5	JR-1125-05P-5
	2 µm	9.24	5	JR-1125-2P-5
	5 µm	10.04	5	JR-1125-5P-5
	10 µm	10.56	5	JR-1125-10P-5
Polyethylene	10 µm	11.31	5	JR-1151-10P-5



NOTES

- * The internal volume is the hold-up volume between the end of the connecting tube and the filter 10-32 connector outlet, including the frit volume.
- ** Flowrate measured with methanol/water (1:1), ultrasonic degassed, helium sparging to prevent regassing.

TECH TIP

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

NOTE

Polyethylene frits are for single use only.

MORE INFORMATION

Calculation of
frit volume95
PEEK-encased
stainless frits74

HPLC

PEEK

Stainless steel precolumn filter NEW

SPECS

- Materials
 Body: 316 SS
 Frit:
 PEEK-encased SS
- 10-32 threads
 Female for inlet
- Male for outlet Pressure rating with ZN1 nut and ZF1S6 ferrule: 1275 bar
- 1375 bar (20,000 psi)

- UHPLC
- Mimimized hold-up volume
- Three porosity options
- Fewer connections compared to in-line filters
- Works with 1/16" column connections from all manufacturers

VICI Jour's new stainless steel precolumn filter is based on our well-known in-line filter. The design of this precolumn filter reduces the number of connections compared to a standard in-line filter, increasing the stability and reducing the potential of leakage.

The small bore sizes (0.15 mm in the nut/body and 0.13 mm in the tubing) guarantee a very small (virtually zero) hold-up volume.

With minimal dead-volume and available with three porosities, these filters are the best column protectors.

Bore size	Pore size	Internal volume	Product No.
0.13/0.15 mm	0.5 µm	0.61 µl	JR-69230-05
	2 µm	0.66 µ	JR-69230-2
	5 µm	0.68 µ	JR-69230-5

46.5 mm

Inlet nuts and ferrules

Includes one 1/16" stainless nut and one 1/16" stainless ferrule.

Pore size Product No.

0.5 um	JR-69330-05
2 um	JR-69330-2
5 um	JR-69330-5

Replacement PEEK-encased SS frits

Pore size	Frit volume	Qty/pkg	Product No.
0.5 um	0.13 uL	5	JR-1110-05P-5
2 um	0.18 uL	5	JR-1110-2P-5
5 um	0.20 ul	5	JR-1110-5P-5
	(



UHPLC



Stainless steel in-line filter

- UHPLC (up to 1375 bar / 20,000 psi)
- Minimized hold-up volume
- Two bores for analytical and semi-prep flow rates
- Three porosity options



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

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

With minimal dead volume and available frit porosities of 0.5, 2 or 5 µm, these

Sold indiv	idually.			
Bore size	Pore size	Internal volume *	Product No.	
0.25 mm	0.5 μm 2 μm 5 μm	0.2 μL 0.3 μL 0.3 μL	JR-68230-05 JR-68230-2 JR-68230-5	9.0
0.75 mm	0.5 μm 2 μm 5 μm	1.7 μL 1.9 μL 1.9 μL	JR-68231-05 JR-68231-2 JR-68231-5	

Includes one 1/16" stainless nut and one 1/16" stainless

0.87 µL

10 µm

in-line filters are the ideal column protectors



Nuts and ferrules

ferrule.	,	
Bore size	Pore size	Product No. volume *
0.25 mm	0.5 μm 2 μm 5 μm	JR-68330-05 JR-68330-2 JR-68330-5
0.75 mm	0.5 μm 2 μm 5 μm	JR-68331-05 JR-68331-2 JR-68331-5

Replacement PEEK-encased SS frits for filter above Bore size Frit Product No. Pore size Qty/pkg volume 0.25 mm 0.13 µL JR-1110-05P-5 0.5 µm 5 2 µm 0.18 µL 5 JR-1110-2P-5 0.20 µL JR-1110-5P-5 5 µm 5 0.75 mm 0.5 µm 0.55 µL 5 JR-1111-05P-5 2 µm 0.74 µL 5 JR-1111-2P-5 0.80 µL JR-1111-5P-5 5 µm 5

5

NOTES

* 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.



JR-1111-10P-5

UHPLC

SPECS

- Materials Body: 316 SS Frit:
- PEEK-encased 316 stainless
- 0.25 or 0.75 mm bore
- 10-32 female to 10-32 male threads
- Pressure rating with ZN1 nut and ZF1S6 ferrule: 1375 bar (20,000 psi)

Safety products AND MOBILE PHASE HANDLING SYSTEMS

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

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

Safety products index

VICI safety filters

Waste caps

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Solviflex tubing70 Flexible coiled PFA tubing expands and contracts, giving flexibility to move mobile phase bottles on the bench.



SAFETY PRODUCTS



Safety air inlet valves

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

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

SPECS Connections Valve to cap:

1/4-28 Filter: Female Luer Materials Housing: Polypropylene Filter: Cellulose O-ring: NBR (O-ring is not

a wetted part)

The check valve regulates the pressure when the negative pressure reaches 1.5 psi or 0.1 bar. This small negative

pressure prevents evaporation of the liquid (lower vapor pressure) and still guarantees the stability of the flow rate. A negative pressure which is too high can influence the aspiration of a constant flow.

Several tests have indicated that the 0.2 µm cellulose filter will keep mobile phase liquid free of bacteria and dust particles over time. If you use a filter and still have bacteria growth in your liquid, it is likely due to the presence of bacteria in the deionized water used.

Air inlet valves fit on any VICI safety cap or VICI cap. Product No.

Description With 4 mm filter With 15 mm filter Without filter

Replacement cellulose filter 0.2 µm x 4 mm

0.2 µm x 15 mm

Spare parts

JR-S-20003 JR-S-20009 JR-S-20006

JR-S-20007 JR-S-20008



with 15 mm filter







Safety air outlet filters

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

Air outlet filters fit on any VICI safety cap or VICI cap. Product No.

Description

Safety air outlet filter

JR-S-20004





 Connections Valve to cap: 1/4-28 Filter: Female Luer

 Materials Housing: Polypropylene Filter: Cellulose O-ring: NBR (O-ring is not a wetted part)

We recommend that safety air inlet valves and safety air outlet valves be replaced

sparging is used.

The air inlet valve is not

suitable when helium

TECH TIPS

every 6-7 months to guarantee correct operation of the check valve. The lifetime of the check valve and the filter depend on the intensity of use and the quality of the ambient air.

RELATED PRODUCTS Safety caps.....62-63 VICI caps64-65



Safety exhaust filters

SAFETY PRODUCTS

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

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

Our new absorbent as an increased capacity over our previous filter and definitely over a competing brand. Excellent capacity leads to longer lifetime of the exhaust filter: up to 10 months* for methanol, and up to 8 months* for acetonitile. The new design also has improved stability at the connecting threads.

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



Detector is unexposed (Color is orange/pink)

Detector is exposed (Color is dark purple)

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

Safety exhaust filters 1/4-28 **SPECS** Description Product No. Connections: Exhaust filter 1/4-28 With detector JR-S-20005 Materials Without detector JR-S-20002 Filter housing: POM Adapter JR-S-40004 Detector Connects PC housing: VICI safety exhaust filter to SCAT[®] waste caps and Frits: Polyethylene A.I.T. smart waste caps NBR O-ring: (O-ring is not a wetted part) See additional information about VICI safety exhaust filters on the facing page.



Exhaust filter without detector **Exhaust filter** with detector

NOTE

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

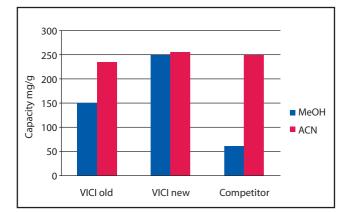
TECH TIPS

- Larger capacity = longer lifetime = lower costs
- As a general rule, halving the flow rate doubles the lifetime at constant composition and temperature. Doubling the flow rate halves it.

RELATED PRODUCTS Carbon dioxide filter ... 71 Humidity filter.....71 Safety caps......62-63 VICI caps64-65

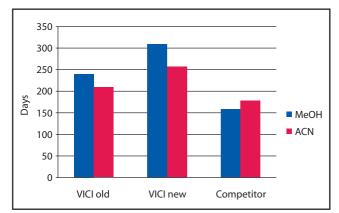
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SAFETY PRODUCTS



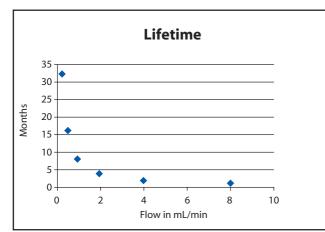
Optimized absorbent of safety exhaust filters

In our continuous work to improve our products, VICI has optimized the absorbent for increased capacity.



The excellent capacity of our new absorbent leads to longer lifetimes – up to 10 months for methanol and 8 months for acetonitrile.*

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



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Safety exhaust filter lifetime

The lifetime of the filter depends on:

- Composition of the mobile phaseFlow rate
- Ambient temperature: a higher temperature leads to an increased vapor pressure of the volatile compound

The theoretical lifetime of an exhaust filter, depending on the flow rate, is shown here.

TECH TIP

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

ADDITIONAL APPLICATIONS

Other applications for safety filters are possible, e.g. an exhaust filter for the GC split vent.

Contact Tech Support for more information.

Safety caps

SAFETY PRODUCTS

Safety caps have built-in stopcocks to close off unused ports or to provide a convenient cut off of the liquid stream when tubing is removed.

- Stopcocks rated up to 72 psi gas at 25°C
- Prevent evaporation of volatile compounds
- Ideal for delivery of mobile phase or collection of waste LC solutions
- 2, 3, or 4 ports with 1/4-28 threads for 1/8" or 1/16" tubing
- Optional bottom-sealing barbed adapter to connect 1/8" (3.2 mm) ID tubing (shown at right – order separately from "Spare Parts")

Safety cap kit

SPECS

Connections: 1/4-28 Materials PP Closure: (polypropylene) PTFF Insert: Stopcock: CTFE O-ring: EPDM (alternative: FEP-coated) PPS Nuts: Ferrules: ETFE Sleeves: PP Bottle: Borosilicate 3.3,

safety coated Filter: Polyethylene

* GL45 caps produced beginning in 2012 will seal with an O-ring behind a PTFE lip. In addition to a GL45 safety cap with color-coded fittings, this kit offers a safety bottle (1 or 2 liter), PFA tubing, and a mobile phase filter.

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

Bottle size:		1 Liter	2 Liters
	No. of ports	Product No.	Product No.
Safety cap kit, GL45	2	JR-S-11111	JR-S-11211
	3	JR-S-11112	JR-S-11212
	4	JR-S-11113	JR-S-11213
		Qty/pkg	Product No.
O-ring, FEP-coated, G	L45	1	JR-S-40008



GL45 threads

INCLUDES

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

Spare parts		for	safety cap kit
	Tubing OD	Qty/pkg	Product No.
1/4-28 flangeless nuts, PPS	1/16" OD	10	JR-55070-10
	1/8" OD	10	JR-55071-10
Inverted ferrules, ETFE	1/16" OD	10	JR-041-10
	1/8" OD	10	JR-051-10
Safety-coated bottle with s	olid cap		
1 Liter		1	JR-9000-0005
2 Liters		1	JR-9000-0010
Plug, 1/4-28 , PEEK		1	JR-409
Barbed hose adapter for 1/2	8" ID tubing	1	JR-075013
Color-Sleeve adapters, 12 c	olors (2 each)	24	JR-5508X-24
No-Met biocompatible mol	bile phase filter,		
economy slip-on connec	tion, 5 µm pore	1	JR-32174
PFA tubing, 1/8" x 1.59 mm	x 3m	1	JR-T-4003-M3

TECH TIP

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

RELATED PRODUCTS Color-Sleeve adapters.....17



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Safety caps

GL45 threads

SAFETY PRODUCTS

SPECS

Safety caps

INCLUDES

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



- Fit all bottles or canisters with GL45 thread
- Built-in stopcocks for easy interruption of solvent lines
- 2, 3, or 4 ports with 1/4-28 threads for 1/8" or 1/16" tubing

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

D 1 . M

	No. of ports	Product No.
Safety cap, GL45	2	JR-S-11011
	3	JR-S-11012
	4	JR-S-11013
O-ring, FEP-coated, GL45		JR-S-40008

Connections: 1/4-28 Materials Closure: PP (Polypropylene) Insert: PTFE Stopcock: CTFE O-ring: EPDM (alternative: FEP-coated) Nuts: PPS Ferrules: ETFE Sleeves: PP

* GL45 caps produced beginning in 2012 will seal with an O-ring behind a PTFE lip.

Safety caps

INCLUDES

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



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- Fit all bottles or canisters with DIN50 thread
- Built-in stopcocks for easy interruption of solvent lines
- 2,3, or 4 ports with 1/4-28 threads for 1/8" or 1/16" tubing

DIN50 safety caps seal to the bottle/canister with an O-ring behind a PTFE lip, so the O-ring is therefore not a wetted part.

	No. of ports	Product No.
Safety cap, DIN50	2	JR-S-15011
	3	JR-S-15012
	4	JR-S-15013

Connection	ons:
1/4-28	
Materials	
Closure:	PP
(Polyprop	ylene)
Insert:	PTFE
Stopcock:	CTFE
O-ring:	EPDM/
5	NBR
Nuts:	PPS
Ferrules:	ETFE
Sleeves:	PP

DIN50 threads

SPECS

NOTE	
NOIL	

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

MORE INFORMATION Chemical resistance 96-98

RELATED PRODUCTS Air inlet valves......59 Exhaust filters60-61

	for safety caps	
bing OD	Qty/pkg	Product No.
1/16″	10	JR-55070-10
1/8″	10	JR-55071-10
1/16″	10	JR-041-10
1/8″	10	JR-051-10
D tubing	1	JR-075013 JR-5508X-24
	1/16″ 1/8″ 1/16″ 1/8″	bing OD Qty/pkg 1/16" 10 1/8" 10 1/16" 10 1/8" 10 1/8" 10 D tubing 1

Barbed hose adapter for 1/8" ID tubing 1 JR-075013 Color-Sleeve adapters, 12 colors (2 each) 24 JR-5508X-24 HROM=1ytic +61(0)3 9762 2034 ECHnology Pty Ltd Australian Distributors Www.chromtech.net.au

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VICI caps

SAFETY PRODUCTS

VICI caps seal to the bottle with an O-ring (EPDM) which is resistant to commonly used HPLC solvents. If improved chemical resistance is required (e.g. for halogenated hydrocarbons), order an FEP-coated O-ring separately. Unused ports should be closed with plugs, available in PEEK or polypropylene. (See "Spare Parts," below)

- Prevent evaporation of volatile compounds
- 2, 3, or 4 ports with 1/4-28 threads for 1/8" or 1/16" tubing
- 6 or 7 ports available in some models
- Optional bottom-sealing barbed adapter to connect 1/8" (3.2 mm) ID tubing (shown at right – order separately from "Spare Parts")

VICI cap kit

SPECS

Connections: 1/4-28 Materials

PP Closure: (polypropylene) PTFE Insert: EPDM O-ring: (alternative: FEP-coated) Nuts: PPS Ferrules: ETFE Sleeves: PP Bottle: Borosilicate 3.3, safety coated Filter: Polyethylene In addition to a GL45 VICI cap with fittings, this kit includes a safety bottle (1 or 2 liter), PFA tubing, and a mobile phase filter.

No. of ports

2

3

4

Bottle size:
VICI cap kit, GL45
O-ring, FEP-coated, GL45

1 Liter 2 Liters Product No. Product No. JR-S-11101 JR-S-11201 JR-S-11102 JR-S-11202 JR-S-11103 JR-S-11203

Product No.

JR-S-40008

Qty/pkg

1



GL45 threads

INCLUDES

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

VICI caps

- Connections: 1/4-28 Materials PP Closure: (Polypropylene) Insert: PTFE Stopcock: CTFE O-ring: EPDM (alternative: FEP-coated) Nuts: PPS Ferrules: ETFE Sleeves: PP
- Fit all bottles or canisters with GL45 thread
- 2, 3, 4, 6, and 7 ports with 1/4-28 threads for 1/8" or 1/16" tubing

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

	No. of ports	Product No.
VICI cap, GL45	2	JR-S-11001
	3	JR-S-11002
	4	JR-S-11003
	6	JR-S-11005
	7	JR-S-11006
O-ring, FEP-coated	JR-S-40008	



GI 45 threads

G	L45 threads
INCLUDES 1 cap, GL45 t 1 O-ring, EPD 1 set: 1/16" n color-sleev 1, 2, 3, 5, or 6 1/8" nut/fe color-sleev	M ut/ferrule/ e adapter sets: rrule/
PTFE insert for 6 port cap	PTFE insert for 7 port cap
f	or VICI caps

Spare parts

* GL45 caps produced beginning in 2012 will seal with an O-ring behind a PTFE lip.

		Tubing OD	Qty/pkg	Product No.
1/4-28 flangel	ess nuts, PPS	1/16"	10	JR-55070-10
		1/8"	10	JR-55071-10
Inverted ferrules, ETFE		1/16"	10	JR-041-10
		1/8"	10	JR-051-10
Plug, 1/4-28	PEEK		1	JR-409
	Polypropyl	ene	1	JR-201999
Barbed hose adapter for 1/8" ID tubing			1	JR-075013
Color-Sleeve adapters, 12 colors (2 each)			24	JR-5508X-24

Color-Sleeve adapters, 12 colors (2 each)

JR-5508X-24

tor vici caps

Additional spare parts for VICI cap kits	Qty/pkg	Product No.
Safety-coated bottle with solid cap		
1 Liter	1	JR-9000-0005
2 Liters	1	JR-9000-0010
No-Met biocompatible mobile phase filter,		
economy slip-on connection, 5 µm pore	e 1	JR-32174
PFA tubing, 1/8" x 1.59 mm x 3m	1	JR-T-4003-M3





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VICI caps

SAFETY PRODUCTS

S40 threads **VICI** caps NEW **INCLUDES** SPECS Fit all bottles with S40 thread 1 cap, S40 thread Connections: ■ 3 ports with 1/4-28 threads for 1/8" or 1/16" tubing 1 set: 1/16" nut/ ferrule/ 1/4-28 color-sleeve adapter The latest addition to the Jour Safety product line, the S40 Materials 2 sets: Closure: PP* VICI cap seals to the bottle with an O-ring (EPDM) which is 1/8" nut/ferrule/ (Polypropylene) resistant to commonly used HPLC solvents. color-sleeve adapter PTFE Insert: O-ring: EPDM No. of ports Product No. Nuts: PPS* VICI cap, S40 3 JR-S-14002 ETFE Ferrules: Sleeves: PP* *not a wetted part

VICI caps

INCLUDES

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



Fit all bottles or canisters with DIN50 thread

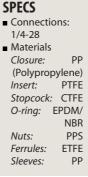
2, 3, or 4 ports with 1/4-28 threads for 1/8" or 1/16" tubing

DIN50 safety caps seal to the bottle/canister with an O-ring behind a PTFE lip, so the O-ring is therefore not a wetted part.



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





DIN50 threads

VICI caps

INCLUDES

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



Fit all bottles or canisters with GL38/430 thread (See NOTES, below)

3

2, 3, or 4 ports with 1/4-28 threads for 1/8" or 1/16" tubing

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

	No. of ports	Product No.
VICI cap, GL38	2	JR-S-13001
	3	JR-S-13002
	4	JR-S-13003
O-ring, FEP-coated, GL38		JR-S-40009

GL38 threads

SPECS	
Connect	ions:
1/4-28	
 Materials 	5
Closure:	PP
(Polypro	pylene)
Insert:	PTFE
O-ring:	EPDM
(alte	ernative:
FEP-	coated)
Adapter	
ring:	PA/PP
Nuts:	PPS
Ferrules:	ETFE
Sleeves:	PP

TECH TIP

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

MORE INFORMATION Chemical resistance 96-98

DELATED DOODUCTO

NOTES

GL38 thread is available in different variations. Please check the inside diameter of the neck:

- For 21-24 mm ID (e.g. Wheaton[®] bottles), use the GL38 cap as is, without an adapter.
- For 24-28 mm ID (e.g. Nalgene® bottles), use the adapter ring (JR-S-40006) which is included with this VICI cap.



TZ/13

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SAFETY PRODUCTS

Waste caps seal the bottle/canister with an O-ring behind a PTFE lip, so the O-ring is therefore not a wetted part. Unused ports should be closed with plugs, available in PEEK or polypropylene. (See "Spare Parts" on page 66.)

- Prevent evaporation of volatile compounds
- 3 or 4 ports with 1/4-28 threads for 1/8" or 1/16" tubing
- Additional port with 1/2-20 thread for 1/4" OD tubing or M10 x 1 thread for a barbed adapter
- Thread-sealing barbed adapters available in three sizes, to connect 4 mm, 6 mm, or 8 mm ID tubing (shown at right – order separately)

Waste caps NEW

SPECS

- Connections: 1/4-28, 1/2-20 Materials Closure: PP (Polypropylene) Insert: PTFE O-ring: NBR Nuts: PPS/POM Ferrules: ETFE/ CTFF Plug: PTFE
- Fits all bottles or canisters with GL45 thread

■ 4 ports with with one M10 x 1 port for barbed/angled adapters

This waste cap seals the bottle/cannester with an O-ring behind a PTFE lip, so the O-ring is therefore not a wetted part.

No. of ports Product No. Waste cap, GL45 4 JR-S-11023



GL45 threads INCLUDES

- 1 cap 1 O-ring
- 1 set: 1/16" nut/ ferrule/
- color-sleeve adapter 2 sets:
- 1/8" nut/ferrule/ color-sleeve adapter

Waste caps

Barbed adapter: PA/PP

GLS80 threads INCLUDES SPECS Fits all bottles or canisters with GLS80 thread 1 cap Conr 1 O-ring 1/4-2 1 set: 1/16" nut/ ferrule/ Mate color-sleeve adapter Closu 1 set: 1/4" nut/ferrule (Poly 3 sets: Inser 1/8" nut/ferrule/ O-rin color-sleeve adapter Nuts: 1 plug, 1/4" (1/2-20), Ferru where noted in product number chart Plug: Barb adap

NOTES

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

MORE INFORMATION

Spare parts for waste caps 68 Chemical resistance 96-98

RELATED PRODUCTS

Waste caps B53 threads68 B83 threads68

nections: 28, 1/2-20 erials	 4 ports with 1/4-28 thread for 1/8" or 1/16" to Fifth port with choice of threads 	ubing	C
<i>ure:</i> PP ypropylene) <i>rt:</i> PTFE	Waste cap, GLS80	Product No.	and and a second
ng: NBR s: PPS/POM ules: ETFE/ CTFE s: PTFE ped pter: PA/PP	Fifth port: 1/2-20 thread for 1/4" OD tubing, with 1/4" plug M10 x 1 thread for barbed adapter (Order barbed adapter from "Spare Parts" on page 66)	JR-S-18004 JR-S-18014	C

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Waste caps

SAFETY PRODUCTS

DIN60 threads Waste caps **INCLUDES** SPECS ■ Fits all bottles or canisters with DIN60 thread 1 cap Connections: ■ 3 ports with 1/4-28 thread for 1/8" or 1/16" tubing 1 O-ring 1/4-28, 1/2-20 Fourth port with choice of threads 1 set: 1/16" nut/ ferrule/ Materials color-sleeve adapter Closure: PP Product No. 1 set: 1/4" nut/ferrule (Polypropylene) Waste cap, DIN60 2 sets: Insert: PTFE Fourth port: 1/8" nut/ferrule/ O-ring: NBR 1/2-20 thread for 1/4" OD tubing, with 1/4" plug JR-S-16003 color-sleeve adapter Nuts: PPS/POM M10 x 1 thread for barbed adapter JR-S-16013 1 plug, 1/4" (1/2-20), Ferrules: ETFE/ (Order barbed adapter from "Spare Parts" on page 64) where noted in product CTFE number chart Plug: PTFE Barbed adapter: PA/PP

Waste caps

INCLUDES 1 cap 1 O-ring 1 set: 1/16" nut/ ferrule/	 Fits all bottles or canisters with S51 thread 3 ports with 1/4-28 thread for 1/8" or 1/16" Fourth port with choice of threads 	tubing
color-sleeve adapter 1 set: 1/4" nut/ferrule		Product l
2 sets:	Waste cap, S51	
1/8" nut/ferrule/	Fourth port:	
color-sleeve adapter	1/2-20 thread for 1/4" OD tubing, with 1/4" plug	JR-S-151
1 plug, 1/4" (1/2-20),	M10 x 1 thread for barbed adapter	JR-S-151
where noted in product	(Order barbed adapter from "Spare Parts" on page 6	56)

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

Closure:	PP
(Polyprop	oylene)
Insert:	PTFE
O-ring:	NBR
Nuts: PP	S/POM
Ferrules:	ETFE/
	CTFE
Plug:	PTFE
Barbed	
adapter:	PA/PP

Waste caps

number chart

INCLUDES

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



■ Fits all bottles or canisters with S61 thread

M10 x 1 thread for barbed adapter

- 3 ports with 1/4-28 thread for 1/8" or 1/16" tubing
- Fourth port with choice of threads

Product No.

1/2-20 thread for 1/4" OD tubing, with 1/4" plug JR-S-16103 JR-S-16113 (Order barbed adapter from "Spare Parts" on page 66)

S61 threads

SPECS	
Connection	ons:
1/4-28, 1/	2-20
 Materials 	
Closure:	PP
(Polyprop	oylene)
Insert:	PTFE
O-ring:	NBR
Nuts: PP	S/POM
Ferrules:	ETFE/
	CTFE
Plug:	PTFE
Barbed	
adapter:	PA/PP

RELATED PRODUCTS

Color-Sleeve	
adapters	17
Exhaust filters60	-61
Air inlet valves	59



Waste cap, S61

Fourth port:

S51 threads d

Product No.

JR-S-15103

JR-S-15113

Waste caps

SAFETY PRODUCTS

Waste caps

SPECS

- Connections: 1/4-28, 1/2-20
- Materials Closure: PP (Polypropylene) Insert: PTFE O-ring: NBR Nuts: PPS/POM Ferrules: ETFE/ CTFE Plug: PTFE Barbed

adapter: PA/PP

- Fits all bottles or canisters with B53 thread
- 3 ports with 1/4-28 thread for 1/8" or 1/16" tubing
 - Fourth port with choice of threads
 - Waste cap, B53
 - Fourth port:
 - 1/2-20 thread for 1/4" OD tubing, with 1/4" plug
 - M10 x 1 thread for barbed adapter (Order barbed adapter from "Spare Parts" below)



Product No.

JR-S-15303

JR-S-15313

Product No.

JR-S-18304

JR-S-18314

B53 threads

INCLUDES

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

Waste caps

SPECS

- Connections: 1/4-28, 1/2-20
- Materials PP Closure: (Polypropylene) Insert: PTFE O-ring: NBR Nuts: PPS/POM Ferrules: ETFE/ CTFE Plug: PTFE Barbed adapter: PA/PP
- Fits all bottles or canisters with B83 thread
- 4 ports with 1/4-28 thread for 1/8" or 1/16" tubing
- Fifth port with choice of threads

Waste cap, B83 Fifth port:

> 1/2-20 thread for 1/4" OD tubing, with 1/4" plug M10 x 1 thread for barbed adapter (Order barbed adapter from "Spare Parts" below)





B83 threads

INCLUDES

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

Snaro narte

Spare parts			for waste caps		
	Material	Tubing OD	Qty/pkg	Product No.	
1/4-28 flangeless nuts	PPS	1/16"	10	JR-55070-10	
-		1/8"	10	JR-55071-10	
Inverted ferrules	ETFE	1/16"	10	JR-041-10	
		1/8"	10	JR-051-10	
1/2-20 nut	POM	1/4"	1	JR-CFL-4D	
Collapsible ferrule	CTFE	1/4"	1	JR-CFL-CB4KF-S	
Adapter					
1/2-20 to 1/4-28	POM	NEW	1	JR-S-40200	
Barbed adapter, M10 x	1				
For 4 mm ID tubing	PA		1	JR-S-40104	
For 6 mm ID tubing	PA		1	JR-S-40106	
For 8 mm ID tubing	PA		1	JR-S-40108	
Barbed hose adapter					
For 1/8" ID tubing	PA/PP		1	JR-075013	
Plug, 1/4-28	PEEK		1	JR-409	
	Polypr	opylene	1	JR-201999	
Plug, 1/2-20	PTFE		1	JR-S-40007	
Color-Sleeve adapters,	12 colors	s (2 each)	24	JR-5508X-24	

NOTES

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

MORE INFORMATION Chemical resistance 96-98

RELATED PRODUCTS

Waste caps
DIN60 threads 67
GL45 threads 66
GLS80 threads 66
S51 threads67
S61 threads67
Color-Sleeve
adapters17
Exhaust filters60-61
Air inlet valves



Eco caps

GL45 threads

Screw collar: PP

(polypropylene)

Pouring ring: PP

O-rings: EPDM

ETFE

PP

SAFETY PRODUCTS

SPECS

Materials

Insert:

Luer plug:

Eco cap kit

INCLUDES

- 1 cap, GL45 thread, with three ports
- 1 safety-coated glass bottle (option: 1 L or 2 L) 1 male Luer plug,
- polypropylene

In addition to an Eco cap with polypropylene male Luer plug, this kit offers a safety bottle (1 or 2L).

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

Eco cap kit 1 Liter bottle 2 Liter bottle

JR-9000-0013 JR-9000-0014

Product No.



GL45 threads

INCLUDES

Eco cap

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

 Competitively priced alternative to sparge and deliver mobile phases

Also available as bottle kit

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

Product No.

JR-070350-10



SPECS Materials Screw collar: PP (polypropylene) Pouring ring: PP Insert: ETFE O-rings: EPDM Luer plug: PP

Product No. JR-9000-0007

Eco cap

Spare parts

10/pkg

Male Luer plug, polypropylene

for Eco cap

NOTE

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

TECH TIP

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

RELATED PRODUCTS Impermeable tubing ...13 Polymeric tubing9-13 Waste caps66-68



SAFETY PRODUCTS

Safety-coated glass bottles

SPECS

- Pressure rating
 0.8 bar (11.6 psi)
- Materials Bottle: 3.3 glass
 Cap: PP (Polypropylene) Pouring ring: PP
- Special design for helium sparging of LC mobile phases
- Safety coating to minimize risk of injury
- Available in 0.25, 0.5, 1 and 2 Liter sizes

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

These safety-coated glass bottles cannot be autoclaved.

Bottles include a solid cap.

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



SolviFlex

SPECS

- 1/18" OD tubing
 Materials
 Tubing: PFA Nuts: PPS
 Ferrules: ETFE
 Filter: PE (Polyethylene)
- Be "mobile" with mobile phase bottles
- Ideal for with VICI safety caps or VICI caps
- Customized version on request

The SolviFlex is made of flexible telephone cable-like PFA tubing which expands and contracts, providing flexibility to move mobile phase bottles up to 1.5 m radius on the bench. Approximately 3 m of tubing is coiled with straight stretches of tubing at each end.

Includes:

- ~3 m coiled 1/8" PFA tubing
- 2 sets: 1/4-28 nut/ferrules for 1/8"OD tubing
- 1 No-Met mobile phase filter with economy slip-on connection (JR-32174)

SolviFlex assembly

Product No. JR-6120-50030



A typical use of SolviFlex Shown installed on a VICI cap and bottle, along with an exhaust filter



NOTES

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

RELATED PRODUCTS

No-Met biocompatible
mobile phase filter52
Safety caps 63
Safety cap kit62
Safety exhaust filter 60-61
VICI caps64-65
VICI cap kit 64

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SAFETY PRODUCTS



Carbon dioxide filter **NEW CO**₂

In ion chromatography, a basic solution is often used as mobile phase. The buffer capacity of such solutions is small, so the pH of the solution can be affected by the carbon dioxide in the air.

Using a bottle in combination with a VICI cap and a carbon dioxide filter prevents any change in the pH of the mobile phase, thus increasing the stability of the analysis. In this application, the carbon dioxide filter also functions as an air inlet valve.

Description	Product No.
Carbon dioxide filter	JR-S-20100



Humidity filter	NEW	H ₂ 0
In applications requiring a	non-aquaeous org	anic solvent,
the moisture in the ambien	it air can influence	the results.
The use of a humidity filter	in combination wi	th a VICI cap
solves this problem.		

Description	Product No.
Humidity filter	JR-S-20200

RELATED PRODUCTS Safety exhaust filters...60



Frits

REPRODUCIBILITY AND PRECISION

VICI Jour unidense frits, with uniform flow across the entire frit, offer unexcelled reproducibility and precision. Proprietary manufacturing processes ensure uniformity and precise, repeatable dimensional control.

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

Frits index

Unidense frits

Stainless	page 73
Titanium	73
Polyethylene	72
PEEK-encased frits	
Stainless	74

Polyethylene.....75

Polyethylene frits – unidense type

SPECS

Material: UHMWPE Tolerances:

> ±0.08 mm (.003")

- Biocompatible

Metal free

Our completely metal-free polymer frits are made of UHMWPE (Ultra High Molecular Weight PolyEthylene), and offer a competitively priced alternative to titanium.

For single use only. Sold in packages of 5.

Wohsite NEW

OL	OD Thickness Porosity Frit volume		Thickness		Frit volume	Product No.
inches	mm	inches	mm	μm	μL	
.255"	6.50	079""	2.00	10	26.5	JR-F-255-079-10PE-5

OPTIONS AND MORE INFORMATION See facing page.

RELATED PRODUCTS PEEK-encased polyethylene frits 75

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Stainless steel frits – unidense type

For both standard frits and those produced to custom specifications, these frits offer unexcelled reproducibility and precision. Proprietary manufacturing processes ensure uniformity and precise, repeatable dimensional control.

SPECS

SPECS

Material:

Titanium,

sintered

Tolerances:

- Material: Stainless steel Type 316L sintered Tolerances:
- See chart below

Stainless steel frits are manufactured of SS316L, which has extra-low carbon content. The sintering process used results in a strong bonding of the sinter metal particles. Depending

on the grade of powder used, the porosity of the frit can be precisely tuned. Sold in packages of 5.

OL)	Thickness		Porosity	Frit volume	Product No.					
inches	mm	inches	mm	μm	μL						
1/16"	1.59	.030"	0.76	0.5	0.39	JR5FR1-5					
				1	0.45	JR-1FR1-5					
				2	0.53	JR-2FR1-5					
				10	0.60	JR-10FR1-5					
1/8"	3.18	.040"	1.02	0.5	2.10	JR5FR2-5					
				1	2.43	JR-1FR2-5					
				2	2.83	JR-2FR2-5					
				10	3.24	JR-10FR2-5					
1/4"	6.35	6.35	6.35	6.35	6.35	6.35	.040	1.02	0.5	8.39	JR5FR4-5
				2	11.30	JR-2FR4-5					
				10	12.91	JR-10FR4-5					
3/8"	9.53	.040"	.040"	1.02	0.5	18.91	JR5FR6-5				
				2	25.45	JR-2FR6-5					
				10	29.09	JR-10FR6-5					
1/2"	12.70	.040"	1.02	0.5	33.58	JR5FR8-5					
				2	45.2	JR-2FR8-5					
				10	51.66	JR-10FR8-5					
1"	25.40	.060"	1.52	2	269.43	JR-2FR1K-5					
				10	307.92	JR-10FR1K-5					

not have chamfers.

OPTIONS Standard frits do

Chamfered frits are available on request.

 Other dimensions and porosities are available on request. Minimum order quantity: 100 pieces. Please contact your local distributor or VICI directly.

TOLERANCES

OD (mm) Tolerance ±0.05 mm (.002") <5 5-12 ±0.08 mm (.003") 12.5-25.4 ±0.20 mm (.008")

NOTES

- Stated porosities are only nominal and do not reflect the maximum pore size of a frit.
- See frit volume chart for help chosing the right frit and porosity for your application......95
- Frit volumes are theoretical and are calculated by multiplying overall frit volume times the porosity proportion.

RELATED PRODUCTS

PEEK-encased frits Stainless74 Titanium75

Titanium frits - unidense type

- Biocompatible
- Recommended for protein analysis
- High corrosion resistance
- Various pore sizes and diameters

See chart at left Titanium is preferred over stainless steel for applications related to the analysis of sensitive substances in general and large biomolecules in particular. Evidently proteins have a tendency to adsorb on the stainless steel (iron) frit and consequently reduce recovery or may even decompose. Titanium also offers higher corrosion resistance and can be used with solvents containing halides.

Sold in packages of 5.

0	OD		Thickness		Frit volume	Product No.	
inches	mm	inches	mm	μm	μL		
1/16"	1.59	.030"	0.76	0.5	0.82	JR5FR1TI-5	
				2	0.71	JR-2FR1TI-5	
1/8"	3.18	.040	1.02	2	2.83	JR-2FR2TI-5	
1/4"	6.35	.040	1.02	2	11.30	JR-2FR4TI-5	
3/8"	9.53	.040	1.02	2	25.45	JR-2FR6TI-5	
1/2"	12.70	.040	1.02	2	45.2	JR-2FR8TI-5	
				10	51.66	JR-10FR8TI-5	
1"	25.40	.060"	1.52	2	180.80	JR-2FR1KTI-5	





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FRITS

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

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

Stainless steel frits – PEEK-encased

SPECS Material:

Frit Stainless

Ring PEEK Tolerances:

> ±0.05 mm (.002")

SS316L

- For HPLC columns or in-line filters
- Eliminate poorly swept volume and improves peak symmetry
- Various porosities and dimensions available

Our PEEK-encased frits with 0.118" or 1/4" OD ring are intended for HPLC columns with IDs of 3.2, 3.9, and 4.6 mm. With the frit surrounded by a PEEK ring, the actual porous surface is reduced to the column ID.

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

Sold in packages of 5.

Ring	OD	Frit (DD	Thick	ness	Porosity	Frit volume	Product No.
inches	mm	inches	mm	inches	mm	μm	μL	
.118"	8" 3.00 .	.038"	0.97	.028"	0.70	0.5	0.13	JR-1110-05P-5
						2	0.18	JR-1110-2P-5
						5	0.20	JR-1110-5P-5
		.077"	1.96	028"	0.70	0.5	.0.55	JR-1111-05P-5
						2	0.74	JR-1111-2P-5
						5	0.80	JR-1111-5P-5
						10	0.87	JR-1111-10P-5
.25"	5" 6.35	.35 .078" 2.00	2.00	062"	1.59	0.5	1.30	JR-1104-05P-5
					2	1.74	JR-1104-2P-5	
		.125"	.125" 3.20	3.20 062"	062" 1.59	0.5	3.32	JR-1102-05P-5
						2	4.47	JR-1102-2P-5
		.153"	3.90	062"	1.59	0.5	4.94	JR-1101-05P-5
						2	4.47	JR-1101-2P-5
		.181"	4.60	062"	1.59	0.5	6.87	JR-1100-05P-5
						2	9.24	JR-1100-2P-5
		.125"	3.20	.062""	1.59	0.5	1.75	JR-1103-05P-5
						2	2.25	JR-1103-2P-5



OPTIONS

 Other dimensions and porosities are available on request. Minimum order quantity: 100 pieces. Please contact your local distributor or VICI directly.

NOTES

- Stated porosities are only nominal and do not reflect the maximum pore size of a frit.
- Frit volumes are theoretical and are calculated by multiplying overall frit volume times the porosity proportion.

RELATED PRODUCTS Unidense type frits Polyethylene72 Stainless73 Titanium73

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SPECS Material:

Frit Titanium

Ring PEEK

Tolerances:

±0.05 mm (.002")

FRITS

Titanium frits – PEEK-encased

- For HPLC columns or in-line filters
- Biocompatible recommended for protein analysis
- Eliminate poorly swept volume and improves peak symmetry
- Higher corrosion resistance
- Various porosities and dimensions available

In terms of biocompatibility, the frit is the critical spot for contributing metal ions to the mobile phase and for interaction with protein samples.

VICI Jour PEEK-encased frits with 1/5" or 1/4" OD ring are intended for HPLC columns with IDs of 3.2 and 4.6 mm. With the frit surrounded by a PEEK ring, the actual porous surface is reduced to the column ID.

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

Sold in packages of 5.

Ring OD		Frit C	Frit OD		Thickness		Frit volume	Product No.			
inches	mm	inches	mm	inches	mm	μm	μL				
1/5"	5.08	.102"	2.60	.062"	1.59	5	3.20	JR-1128-5P-5			
.25"	6.35	.125"	3.20	.062"	1.59	0.5	3.32	JR-1127-05P-5			
					2	4.47	JR-1127-2P-5				
	.181	.181" 4.6	4.60	.062"	1.59	0.5	6.87	JR-1125-05P-5			
						2	2.94	JR-1125-2P-5			
					5	10.04	JR-1125-5P-5				
					10	10.56	JR-1125-10P-5				



Polyethylene frits – PEEK-encased

- Biocompatible
- Metal free

Our polymer frits are made of UHMWPE (Ultra High Molecular Weight PolyEthylene). They are a competitively priced alternative to titanium and are completely metal free.

With the frit surrounded by a PEEK ring, the actual porous

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- SPECS
- Material:
 Frit UHMWPE
 Display
- Ring PEEK Tolerances:
 - ±0.05 mm (.002")

OPTIONS AND MORE INFORMATION See facing page.

TECH TIPS

- PEEK-encased titanium frits can also be used as spare parts frits for the PEEK in-line filter kit . .54
- PEEK-encased polyethylene frits can be used as spare parts for:

PEEK in-line filter kit.....54 PEEK columns77

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

Sold in packages of 5.

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Ring OD		Frit OD		Thickness		Porosity	Frit volume	Product No.
inches	mm	inches	mm	inches	mm	μm	μL	
1/5"	5.08	.098"	2.50	.059"	1.50	10	2.94	JR-1150-10P-5
.25"	6.35	.181"	4.60	.059"	1.50	10	11.31	JR-1151-10P-5

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Columns

PEEK COLUMNS = GUARD COLUMNS

Columns index

PEEK columns 2.1 mm ID page 77 In-line biocompatible This PEEK guard column system extends the life of valuable analytical columns by trapping contaminants from the sample and mobile phase. Only PEEK and titanium contact the mobile phase and sample. **Column couplers and plugs** Column coupler, one-piece fingertight79 Column end plugs79 Column end plugs, logotype79 VICI Jour column packing kits are ready-to-use tools to pack our PEEK columns and PEEK guard columns. Includes needed slurry reservoir,

packing adapter, and packing seals.

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2.1 mm ID PEEK columns

- Biocompatible
- High pressure applications
- Packing devices available

We have designed this column for narrow-bore applications, and for those when a limit amount of sample is available for analysis.

Because 2.1 mm ID columns operate at 1/5th of the flow rate of their 4.6 mm counterparts, the same sample mass injected on a 2.1 mm column will produce five times the detector signal. This greater mass sensitivity provides the same analysis as on a 4.6 mm column with only 20% of the sample.

 Material: PEEK, black and natural
 Tolerances:

SPECS

- Tolerances: ±0.05 mm (.002")
- Pressure rating maximum: 210 bar (3000 psi)
 During packing, using a VICI Jour packing kit: 350 bar (5000 psi)

All our columns are delivered without frits. Purchase frits separately.

Length			Product No.
30 mm 50 mm 100 mm			JR-65001NF JR-65002NF JR-65003NF
150 mm 250 mm			JR-65005NF JR-65006NF
Spare parts Description	Qt	//pkg	Product No.
Column end fitting		1	JR-062
PEEK-encased frit Titanium, 5 μm Polyethylene, 10 μr	n	5 5	JR-1128-5P-5 JR-1150-10P-5

4.0 mm ID PEEK columns

Biocompatible

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- High pressure applications
- Packing devices available

Today's HPLC and IC applications are more demanding than ever. The limitations of traditional stainless steel pose significant problems for a growing number of important biotechnology and ion chromatography applications.

All our columns are delivered without frits. Purchase frits separately.

HROM als			Australian Distributors
PEEK-encased frit Titanium, 5 μm Polyethylene, 10 μm	5 15	JR-1125-2P-5 JR-1151-10P-5	
Column end fitting	1	JR-66140	
Spare parts Description	Qty/pkg	Product No.	
250 mm 300 mm		JR-68185NF JR-68186NF	
150 mm		JR-68184NF	
50 mm 100 mm 125 mm		JR-68181NF JR-68182NF JR-68183NF	
Length		Product No.	

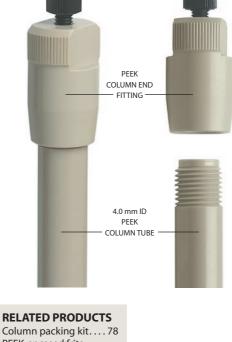
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SPECS

- Material: PEEK, black and natural
- Tolerances: ±0.05 mm
- (.002") ■ Pressure rating
- maximum: 350 bar (5000 psi) During packing, using a VICI Jour packing kit: 560 bar (8000 psi)

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PEEK-encased frits Titanium75 Polyethylene frits75

PEEK COLUMNS GUARD COLUMNS

In-line biocompatible guard column

SPECS

- Material: PEEK, titanium
- Pressure rating:
 < 350 bar
 (< 5000 psi)
- BiocompatibleEasy to fill
- Packing device for self-packing available

The VICI Jour in-line PEEK guard column system extends the life of valuable analytical columns by trapping contaminants from the sample and mobile phase, thereby preventing loss of retention.

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



Guard column system includes:

- Guard column cartridge
- 2 Titanium frits
- Housing
- O-ring

Guard column cartridge includes:

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



Description			Product No.
Guard column system	2 μm 5 μm		JR-68252TI2 JR-68252TI
Guard cartridge with 2 frits	2 μm 5 μm		JR-68242TI2 JR-68242TI
Spare parts			
Description		Qty/pkg	Product No.
Replacement frit, titanium	2 µm	1	JR-F-197-062-2TINC
	5 µm	1	JR-F-197-062-5TI
Packing seal		1	JR-9

Packing kits

SPECS				
Material: PEEK				
Pressure ratings				
during packing,				
using a VICI				
Jour packing kit:				
Column Packing				
ID pressure				
2.1 mm 350 bar				
(5000 psi)				
4.0 mm 560 bar				
(8000 psi)				
See column pages				
for operating				
pressure ratings.				

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

DescriptionProduct No.For 2.1 mm ID columnsPacking kitJR-67-250-2AReplacement PEEK packing adapterJR-67140-1AReplacement PEEK packing sealJR-65011For 4.0 mm ID columnsJR-67-250-4Packing kitJR-67-250-4Replacement PEEK packing adapterJR-67140-28

placement PEEK packing adapter	JR-67140-2B
placement PEEK packing seal	JR-65158

For in-line biocompatible guard columns

Packing kit JR-27305 Replacement CTFE packing seal JR-9

TECH TIP

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



Rep

PEEK COLUMNS ■ **GUARD COLUMNS**

SPECS

Material:

Tubing

Fittings

Sleeve

Threads:

(Polypropylene)

10-32 male to 10-32 male

Pressure rating:

<350 bar (5000 psi) PEEK

PEEK

PP



One-piece fingertight column couplers

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

Choose from a variety of coupler IDs, indicated by the color of the sleeve. A unique feature of this column coupler is that it adapts automatically to fit all pilot lengths – Valco, Waters, Upchurch, Rheodyne, etc. Since the tubing bottoms out in any fitting detail, added void volume is minimal.

Sold individually.

Color	ID	Product No.
Red	0.13 mm	JR-26501
Yellow	0.17 mm	JR-26502
Blue	0.25 mm	JR-26503
Orange	0.50 mm	JR-26504



Coupler shown installed between two columns (columns not included)

Column end plugs - logotype

- Customizable with your logo and color (OEM version)
- Same features as column end plugs below

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

SPECS

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

SPECS

Material: Nylon Threads: 10-32

Tolerances: ±0.05 mm

(.002")

TZ/13

Sold in packages of 10.



Column end plugs

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

Fingertight column end plugs fit all columns with 10-32 threads. Easy handling is guaranteed by an additional 5/16" wrench flat, which allows the plug to be loosened by

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a wrench if it gets stuck. The long design and threading down to the ferrule ensure safe closing of valuable columns.

Sold in packages of 10.

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<i>Color</i> White Black Red Green	Product No. JR-4071-10 JR-4072-10 JR-4073-10 JR-4074-10			
Blue	JR-4075-10			

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RELATED PRODUCTS Color-coded PEEK tubing 6-8

Sample loops VALCO = CHEMINERT® = RHEODYNE®

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

Sample loops index

PEEK loops PEEK loops for:

Stainless steel loops

Stainless loops for:
Cheminert82
Rheodyne83
Valco82

SPECS

 Material: Loops PEEK Nuts PEEK Ferrules PEEK Caps PE (Polyethylene)
 Tolerances: ±0.025 mm (.001")

PEEK loops

• Wide range of volumes available

Biocompatible

VICI Jour PEEK sample loops are made from striped color-coded PEEK tubing and PEEK fittings. PEEK is a mechanically strong, chemically inert polymer ideal for HPLC applications. Since our PEEK sample loops contain no metals or other extractable compounds, no foreign materials will be introduced into the system. Softener-free polyethylene caps are used to avoid contamination of the tubing.

PEEK sample loops are particularly well suited for separations involving proteins, peptides, nucleic acids or other samples of biological origin as well as in IC systems where metal traces may interact with ionic samples or release transition metals that may deactivate ion exchange columns.

PEEK hex-head nuts and PEEK ferrules provide reliable connections, and avoid twisting of the tube.

DISCLAIMER

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



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PEEK loops

SAMPLE LOOPS

for Cheminert valves

for Rheodyne valves

for Valco valves



PEEK loops

Fit all Cheminert C1, C1CF, C2, C2V, and C3 type valves.

Sample size	Press bar	ure * psi	Product No.	Sample size	Press bar	ure * psi	Product No.
5 μl 10 μl 20 μl 50 μl 100 μl 200 μl	400 400 400 400 400 240	5800 5800 5800 5800 5800 3500	JR-SLC-85-5 JR-SLC-85-10 JR-SLC-85-20 JR-SLC-85-50 JR-SLC-85-100 JR-SLC-85-200	250 µl 300 µl 500 µl 1 ml	240 240 240 240	3500 3500 3500 3500	JR-SLC-85-250 JR-SLC-85-300 JR-SLC-85-500 JR-SLC-85-1000



PEEK loops

Fit all Rheodyne metal and metal-free valves.

Sample size	Pressui bar	re * psi	Product No.	Sample size	Pressu bar	re * psi	Product No.
1 μl	435	6300	JR-SLR-2190	50 μl	350	4500	JR-SLR-2202
2 μl	420	6100	JR-SLR-2191	100 μl	350	4500	JR-SLR-2204
3 μl	420	6100	JR-SLR-2192	200 μl	240	3500	JR-SLR-2206
4 μl	420	6100	JR-SLR-2193	250 μl	240	3500	JR-SLR-2207
5 μl	400	5800	JR-SLR-2194	500 μl	240	3500	JR-SLR-2210
10 μl	400	5800	JR-SLR-2196	1 ml	240	3500	JR-SLR-2222
20 µl 30 µl 40 µl	386 386 386	5600 5600 5600	JR-SLR-2195 JR-SLR-2200 JR-SLR-2201				

PEEK loops

Fit all 1/16" Valco W and UW type valves.

Sample size	Press bar	sure *	Product No.	
SIZE	bur	psi		1
5 µl	400	5800	JR-SLV-75-5	
10 µl	400	5800	JR-SLV-75-10	
20 µl	400	5800	JR-SLV-75-20	
50 µl	400	5800	JR-SLV-75-50	
100 µl	400	5800	JR-SLV-75-100	
250 μl	240	3500	JR-SLV-75-250	
500 µl	240	3500	JR-SLV-75-500	
1 ml	240	3500	JR-SLV-75-1000	



Spart parts

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for PEEK Cheminert, Rheodyne, and Valco loops

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TZ/13

 Sold in packages of 5.
 Description
 Product No.

 PEEK nuts for use with double ferrules, 1/16" hex head long, 10-32
 JR-5510-5

 PEEK single ferrules, 1/16" (Use 2 per nut, as shown at right.)
 JR-5005-5

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* Recommended maximum permanent working pressure

TECH TIPS

- See general information about PEEK loops on facing page.
- The tighter ID tolerance of the tubing minimizes the tolerance of the loop volume.



OPTIONS

Other sample sizes are available on request. Please contact your distributor or VICI Jour directly.

SAMPLE LOOPS

SPECS

Material:

Loops SS316 Nuts SS303 Ferrules SS316 Caps PE (Polyethylene)

 Tolerances: ±0.05 mm (.002")

Pressure rating:
 ≤ 1375 bar
 (≤ 20,000 psi)

- Wide range of volumes available
- Ultra high pressure resistance

VICI Jour stainless steel sample loops are made of high quality SS316. They are cut using an electrolytic cutting process, cleaned with ultrasound and high pressure steam to remove contaminants, dried, and capped with softener-free caps to avoid recontamination of the tubing.

All loops are supplied with stainless hex-head nuts and stainless ferrules for reliable connections.

Stainless steel loops

for Cheminert valves

Fit all Cheminert C1, C1CF, C2, C2V, and C3 type valves.

Sample size Product No.

5 μl	JR-SLC-86-5
10 μl	JR-SLC-86-10
20 μl	JR-SLC-86-20
50 μl	JR-SLC-86-50
100 μl	JR-SLC-86-100
250 μl	JR-SLC-86-250
500 μl	JR-SLC-86-500
1 ml	JR-SLC-86-1000



Stainless steel loops

for Valco valves

Fit all 1/16" Valco W and UW type valves.

Sample size Product No.

5 µl	JR-SLV-76-5
10 µl	JR-SLV-76-10
20 µl	JR-SLV-76-20
50 µl	JR-SLV-76-50
100	
100 µl	JR-SLV-76-100
250 µl	JR-SLV-76-250
500 µl	JR-SLV-76-500
1 ml	JR-SLV-76-1000



Spart parts for stainless Cheminert and Valco loops

Sold in packages of 5.

Description

Product No.

1/16" stainless nuts, 10-32 1/16" stainless ferrules JR-ZN1-5 JR-ZF1S6-5

> **TECH TIPS AND OPTIONS** See facing page.

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Stainless steel loops

SAMPLE LOOPS

for Rheodyne valves

Stainless steel loops

- Fit all Rheodyne valves
- Special loops for valve Model 7725

Sample size Product No.

5 μl	JR-SLR-111
10 μl	JR-SLR-112
20 μl	JR-SLR-113
50 μl	JR-SLR-114
100 μl	JR-SLR-115
200 μl	JR-SLR-116
500 µl	JR-SLR-117
1 ml	JR-SLR-118

Loops for Rheodyne valve 7725, 1/16"

Sample size	Product No.
5 µl	JR-SLR-111-77
10 µl	JR-SLR-112-77
20 µl	JR-SLR-113-77
50 µl	JR-SLR-114-77
100 µl	JR-SLR-115-77
200 µl	JR-SLR-116-77
500 µl	JR-SLR-117-77
1 ml	JR-SLR-118-77



Spart parts

for stainless Rheodyne loops

Sold in packages of 5.

Description	Product No.
1/16" Rheodyne type stainless nuts For valve 7725, long head X-long	JR-57-5 JR-58-5
Stainless ferrules 1/16" 2-step Rheodyne type, 1/16"	JR-59-5 JR-60-5

TECH TIPS

- Not recommended for use with halides.
- We offer nuts in three lengths to facilitate wrench access on valves. For loops that will be replaced frequently, we recommend our longest nut – particularly when space is restricted. See long nuts31



OPTIONS

Other sample sizes are available on request. Please contact your distributor or VICI Jour directly.

MORE INFORMATION About stainless steel..100



Accessories

TOOLS = STARTER KITS = BACK-PRESSURE REGULATOR

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

Accessories index

Accessories for tubing

Easy-Flange kit	page 85
Easy-Flange combi kit	85
PEEK tubing elbows	86
Tubing clip - the LC tubing organizer	86
LC tubing organizer	86
Tubing cutters for polymeric tubing	
Clean-cut	86
Guillotine	86
Tubing cutters for stainless tubing	
Cutting wheel type	87
Plier type	

Accessories for fittings

Color-It fingertight adapters17
Work great with all our PEEK and
stainless hex head nuts for 1/16"
tubing.
Color-Sleeve adapters

Designed to be used with our black PPS nuts and one-piece fittings.

Back-pressure regulators88

Our back-pressure regulator improves baseline stability by preventing bubble formation in the flow cell.

Tools

10013
Ferrule removal kit
File
Hex key set
Tweezer
Wrench
ValvTool
Tubing cutters
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Starter kits

Starter Kits	
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Flange-rolling tool, PTFE tubing,	
fittings, and accessories	
PEEK starter kit90	
PEEK fittings and tubing	
Stainless starter kit90	
Stainless steel fittings and tubing	
ChromBox kit91	
PEEK and stainless fittings and	
tubing	

RELATED PRODUCTS Color-Sleeve adapters turn PPS nuts into fingertight fittings and color-code different solvent lines......17



Color-It fingertight adapters work great with all our PEEK and stainless hex head nuts for 1/16" tubing......17







Easy-Flange kit

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

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

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

Description		Product No.
Easy-Flange kit		JR-201540
Kit includes: Flanging clamp Flanging discs with:	<i>Qty</i> 1 pair	Product No. JR-201531
0.5 mm SS pin for PEEK tubing	1	JR-202235
0.8 mm polymer pin	1	JR-201541
0.8 mm titanium pin	1	JR-201554
1.3 mm polymer pin	1	JR-201536
1.3 mm titanium pin	1	JR-201537
Clean-Cut tubing cutter	1	JR-797
Tubing, PTFE, 1/16" x 0.75 mm ID	2 m	JR-T-4036
Plastic box	1	JR-201540L
Flanger/distance gauge	1	JR-201532



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Easy-Flange combi kit

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

Description			Product No.
Easy-Flange combi I	Kit		JR-201539
Includes:		Qty	Product No.
Easy-Flange kit above		1	JR-201540
PPS nuts, 1/4-28, flanged			
	White, for 1/16" tubing	10	JR-201094WH-10
	Black, for 1/8" tubing	10	JR-201580BK-10
PP washers	For 1/16" tubing	10	JR-201926-10
	For 1/8" tubing	10	JR-201928-10
PTFE tubing	1/16" x 0.75 mm ID	3m	JR-T-4036-M3
	1/8" x 1/16" ID	3m	JR-T-680 0-M3



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Additional sizes of flanging discs are available. Flanging disc with 1.0 mm

OPTIONS

1.0 mm polymer pin JR-201662 1.5 mm polymer pin JR-201663

MORE INFORMATION

Flanged fittings.... 41,43 Polymeric tubing......9-13

PEEK tubing elbows

Tubing elbows (90° and 180°) are ideal for routing 1/16" PEEK tubing through an LC system. These elbows are proportioned to bend PEEK tubing at the optimum radius for maximum chemical resistance and burst pressure. Installation is simple –just snap the tubing into the elbow.

Sold in packages of 5.

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

Tubing clip – the LC tubing organizer

- Fixes 1/16" and 1/8" tubing to beakers, flasks, or bottles
- Stainless steel spring for long life

This convenient device holds both 1/16" and 1/8" polymer tubes precisely where they should be in your beakers, flasks and bottles etc. up to 4 mm wall thickness. The stainless steel spring will keep your tubing clip working for a long time, and helps keep the solvent line in the solvent.

Description Product No. Tubing clip JR-9001

Clean-Cut tubing cutter

for polymeric tubing

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

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

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

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

Guillotine tubing cutter

for polymeric tubing

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

Description

Product No.

Guillotine tubing cutter JR-794 Replacement blade JR-795











Stainless steel tubing cutter – cutting wheel type

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

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

DescriptionProduct No.Tubing cutter for metal tubing
Replacement cutting wheelJR-792
JR-793

Stainless steel tubing cutter – plier type

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

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

DescriptionProduct No.Tubing pliers for metal tubingJR-796



File

This deburring file is handy tool for cleaning up metal tubing ends.

Description Deburring file *Product No*. JR-802

TECH TIP

Between the sample injector, column, and detector, use our pre-cut stainless steel tubing, which has been electrolytically cut and steam cleaned.14

MORE INFORMATION Pre-cut stainless steel tubing......14







Backpressure regulator

- **SPECS**
- For 1/16" OD tubing
- Materials Wetted parts: Housing: PEEK/ CTFE Membrane:

Polyimide ■ 10-32 threads

 Dead volume:
 0.25 µl (theoretical)

- Improves baseline stability by preventing bubble formation in the flow cell
- Adjust backpressure without disconnecting anything
- Completely biocompatible fluid path, with low dead volume
- Easy mount with 17 mm panel hole, 9 mm maximum thickness

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

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

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

Backpressure regulators are available in two ranges: 1-20 bar (15-300 psi) and 20-103 bar (300-1500 psi)., and two housing types: PEEK and CTFE.

Range		Housing	Product No.
1-20 bar	15-300 psi	PEEK CTFE	JR-BPR1 JR-BPR1KF
20-103 bar	300-1500 psi	PEEK CTFE	JR-BPR2 JR-BPR2KF



ValvTool

- For making connections in hard-to-reach areas
- Ideal for nuts with 1/4" hex and 5/16" heads

The ValvTool is a time-saving device which provides easy access to many hardto-reach areas. The unique design with its slotted wrench allows tightening of nuts where a loop or a capillary might otherwise make it difficult. The ValvTool is ideal for Valco and Rheodyne[®] valves and fittings, as well as most of the HPLC and PEEK fittings on the market with 1/4" and 5/16" heads.

Description Product No. ValvTool wrench JR-800 1/4" and 5/16" JR-800 ValvTool shown loosening a nut on a valve (ValvTool shown loosening a nut on a valve (Valve and loop not included)

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Ferrule removal kit For 360 µm and 1/32" ferrules



Ferrule removal kit For 1/16" and 1/8" ferrules

Ferrule removal kits

- Remove polymeric ferrules stuck in fitting details
- One version for 1/32" and 360 micron ferrules
- Another version for 1/16" and 1/8" ferrules

Ferrule removal kits are easy-to-handle tools for removing ferrules stuck in a fitting detail. Two versions cover four different ID's of ferrules.

Description	For use with	Product No.
Ferrule removal kits	360 µm and 1/32" ferrules	JR-FRK1
	1/16" and 1/8" ferrules	JR-FRK2

Tightening tools for PEEK fittings

These handy tools make it fast and easy to tighten hex-head fittings. The green tool is for any 1/32" fitting with a 3/16" hex head nut, and the blue version fits the 1/4" hex common in fittings for 1/16" tubing.

Color	For use with	Prod No	
Green Blue	1/32" fittings (6-40 threads) 1/16" fittings	JR-CNFT JR-ZNFT	



Hex key set

The hex key set has a wrench to fit any socket head screw on any VICI valve or actuator. Includes the following sizes: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", and 5/32".

Description Product No. Hex ket set JR-HKS3



Tweezer

Ideal for picking up small fittings, etc.

Description Tweezer

Product No. JR-806

Wrenches

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

ECH

Description

Wohsite NEW

Open end wrench 1/4" and 5/16" 3/8" and 7/16"



Product No.



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RELATED PRODUCTS Deburring file87 Tools for tubing86-87

PEEK starter kit

- All parts biocompatible
- Ideal kit for all HPLC users

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

For a number of interesting LC applications involving proteins, peptides, nucleic acids, or other samples of biological origin, metal systems may interact with samples or release transition metals that will deactivate columns. Replacing stainless steel parts (such as tubing fittings, ferrules, filters, etc.) with PEEK creates a biocompatible environment for samples and mobile phase.

Description			Product No.	
PEEK starter kit			JR-35P	
Kit includes:		Qty	Product No.	En lo
PEEK fittings	One-piece 10-32 fittings	10	JR-55020-5	San and and
-	Fingertight 10-32 nuts	5	JR-5580-5	
	Hex-head long 10-32 nuts	5	JR-5510-5	entitient the second
	1/16" double ferrules	20	JR-5004-10	-all the music
	Union body, 0.25 mm bore	1	JR-061	the solution of the
PEEK tubing,	1/16" OD			
	0.25 mm ID x 3 m, blue stripe	1	JR-T-6001-M3	
	0.50 mm ID x 3 m, orange stripe	1	JR-T-6002-M3	the set of
Filters	PEEK in-line filter kit	1	JR-68256	Fre wash
	Last Drop mobile phase filter,			
	5 μm, PTFE	1	JR-9000-0521	
Accessories	Tubing elbow, 90°	2	JR-357090	
	Tubing elbow, 180°	2	JR-357180	
Tools	Clean-Cut polymeric tubing cutter	1	JR-797	
	Tweezer	1	JR-806	

Stainless steel starter kit

The kit consists of stainless fittings, ferrules, tubing, and solvent filters, as well as a union, our cutting-wheel type metal tubing cutter, and other useful items like our ValvTool. All boxed together for a very competitive price.

Description			Product No.	
Stainless steel start	er kit		JR-35S	
Kit includes:		Qty	Product No.	
Stainless fittir	ngs			
	1/16" nuts, 10-32	10	JR-ZN1-5	
	1/16" nuts, 10-32, 19 mm long	10	JR-LZN1-5	
	1/16" ferrules	20	JR-ZF1S6-5	
	1/16" union with nuts/ferrules,			
	0.25 mm bore	1	JR-ZU1CS6	
Stainless tubi	ng			
	1/16" x 0.25 mm x 3 m	1	JR-T-625-10-M3	
	1/16" x 0.50 mm lD x 3 m	1	JR-T-625-20-M3	
	1/16" x 0.18 mm ID x 100 mm	2	JR-T-97030	and and
	1/16" x 0.25 mm ID x 200 mm	2	JR-T-97060	
Filters	Mobile phase, 2 µm, 1/8" pipe OD	1	JR-3675-2	
	Stainless in-line, 0.25 mm ID	1	JR-68230-5	
	Last Drop, 10 µm	1	JR-9000-0532	
Tools	ValvTool 1/4" x 5/16" wrench	1	JR-800	2 10
	Open end wrench, 1/4" x 5/16"	1	JR-804	HOLD, MY
	Tubing cutter	1	JR-792	2 Cartha
	Tweezer	1	JR-806	THE

RELATED PRODUCTS

IN THE PEEK KIT
PEEK fittings
One-piece 10-32
fittings20
Nuts for double ferrule
Fingertight23
Hex-head, long 23
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UHPLC

ChromBox kit

Includes

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

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

Description ChromBox kit			Product No. J R-34N
ChromBox kit ir PEEK fitting:		5 5 10 1	JR-55020-5 JR-5580-5 JR-5510-5 JR-5004-10 JR-061
SS fittings	1/16" nuts, 10-32, 13 mm long 1/16" nuts, 10-32, 19 mm long 1/16" ferrules 1/16" union with nuts and ferrules, 0.50 mm bore	5 5 10 1	JR-MZN1-5 JR-LZN1-5 JR-ZF1S6-5 JR-ZU1MS6
Tubing PEEK	1/16" x 0.25 mm ID x 3 m, blue stripe 1/16" x 0.50 mm ID x 3 m, orange stripe	1 2 1	JR-T-6001-M3 JR-T-6002-M3
PTFE Stainle	1/8" x 1/16" ID x 3 m ss 1/16" x 0.25 mm x 3 m 1/16" x 0.50 mm ID x 3 m	1 1 1	JR-T-6800-M3 JR-T-625-10-M3 JR-T-625-20-M3
Filters	PEEK in-line filter kit Stainless Last Drop, 2 μm	1 1	JR-68256 JR-9000-0530
Accessories	Tubing elbow, 90° Tubing elbow, 180° Tubing clip	1 1 2	JR-357090 JR-357180 JR-9001
Tools	Clean-Cut polymeric tubing cutter Plier style SS tubing cutter ValvTool 1/4" x 5/16" wrench Open end wrench, 1/4" x 5/16" Deburring file Tweezer	1 1 1 1 1	JR-797 JR-796 JR-800 JR-804 JR-802 JR-806





RELATED PRODUCTS

KIT

PEEK fittings One-piece 10-32 fittings 20 Nuts for double ferrule Fingertight23 Hex-head, long 23 Double ferrules 23 Union body26 Stainless fittings 1/16" ferrules32 Tubing Color-coded striped PEEK 6 PTFE 12 Stainless.....15 Filters PEEK in-line filter kit . 54 Stainless in-line 57 Accessories Tubing elbows......86 Tools Clean-Cut polymeric tubing cutter 86 Plier style stainless tubing cutter 87 ValvTool88 Open end wrench ... 89 Deburring file87 Tweezer89

General reference CHEMICAL RESISTANCE = MATERIALS = GLOSSARY

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General conversion factors

inches to mm	inches x 25.4 = mm
feet to meters	feet x 0.3048 = meters
meters to feet	meter x 3.28 = feet
bar to psi	bar x 14.5 = psi
psi to bar	psi x 0.069 = bar
psi to kPa	psi x 6.9 = kPa

RELATED PRODUCTS

Tubing
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FEP
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Solid-color11
PEEK 5-8
Dual-layer7
Natural 5
Solid-color8
Striped 6
PFA9
PTFE12
Natural 12
Solid-color12
Stainless steel
Premium grade 15
Welded 15



Tubing volume/length conversion chart

1/16" OD tubing sold by VICI typically has an ID tolerance of ± 0.025 mm. This is much tighter than normal commercial grades of tubing; however, it is enough to result in noticeable error if exact volumes are not measured, according to the equation $V = \Pi (\frac{1}{2} D)^2 L.$

Tubing ID		Volume/ length	
mm	inches	µl/cm	µl/in
0.050	.002"	0.02	0.05
0.064	.0025"	0.03	0.08
0.075	.003"	0.04	0.12
0.10	.004"	0.08	0.21
0.13	.005"	0.13	0.32
0.17	.0067"	0.23	0.58
0.18	.007"	0.25	0.63
0.25	.010"	0.51	1.29
0.38	.015"	1.14	2.90
0.50	.020"	2.03	5.15
0.64	.025"	3.17	8.04
0.75	.030"	4.56	11.58

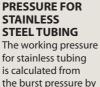
Tubi	Tubing ID		/length
mm	inches	µl/cm	µl/in
1.00	.040"	8.11	20.59
1.40	.055"	15.39	38.93
1.52	.060"	18.24	46.33
1.59	.062"	19.86	49.47
1.65	.065"	21.38	54.38
1.70	.067"	22.70	57.78
1.78	.070"	24.83	63.06
2.00	.079"	31.42	80.32
2.10	.083"	34.64	88.66
2.16	.085"	36.61	92.99
2.40	.094"	45.24	113.72
3.18	.125"	79.4	201
3.76	.148"	111	282
4.35	.171"	149	376

Maximum recommended working pressures for stainless steel tubing

	PREMIUM GRADE STAINL						
OD	ID (mm)	bar	psi		OD		
1/32"	0.13	1735	25,160		1/8"		
	0.18	1601	23,225				
	0.25	1395	20,230				
	0.50	734	10,645				
1/16"	0.13	1902	27,580				
	0.18	1835	26,610				
	0.25	1735	25,160		1/4"		
	0.50	1395	20,230				
	0.75	1067	15,480				
	1.00	734	10,645				

NLESS TUBING						
D	ID (mm)	bar	psi			
/8"	0.68	1622	23,520			
	0.75	1572	22,800			
	1.00	1406	20,400			
	1.50	1075	15,600			
	1.70	960	13,920			
	2.16	662	9,600			
/4"	4.65	554	8,040			
-	-1.00	554	0,040			

WELDED STAINLESS TUBING					
OD	ID (mm)	bar	psi		
1/16"	0.13	1871	27,140		
	0.18	1794	26,025		
	0.25	1717	24,910		
	0.50	1384	20,080		
	0.75	1076	15,610		
	1.00	743	10,780		
1/8"	2.10	680	9,860		
1/4"	4.65	538	7,800		



WORKING

the burst pressure by dividing by 2.5. The theoretical burst pressure(s) were calculated using Lame's formula and a safety factor of 2. Additionally, these results assume the tubing is not subject to any other stresses (e.g. temperaure different from ambient, bends) that would influence the calculations. the end user must decide the safe maximum working pressure based on this information and the specific application.



	PEEK TUBING												
OD	ID (μm)	bar	psi		OD	ID (mm)	bar	psi		OD	ID (mm)	bar	psi
360 µm	50	358	5200		1/32"	0.050	455	6600		1/16"	0.050	480	7000
	75	345	5000			0.064	455	6600			0.064	480	7000
	100	300	4400			0.075	455	6600			0.075	470	6800
	125	275	4000			0.100	455	6600			0.100	460	6700
	150	240	3500			0.13	414	6000			0.13	460	6700
						0.15	400	5800			0.18	440	6400
						0.18	386	5600			0.25	420	6100
						0.20	369	5350			0.50	345	5000
						0.25	338	4900			0.75	262	3800
						0.38	269	3900			1.00	179	2600
						0.50	207	3000			1.40	55	800

Maximum recommended working pressures for PEEK tubing

Maximum recommended working pressures for polymeric tubing

OD	ID (mm)	bar	psi
1/32"	0.10	82	1200
	0.13	78	1100
	0.15	78	1100
	0.18	72	1050
	0.25	68	980
	0.38	51	750
	0.50	35	500

FEP TUBING					
OD	ID (mm)	bar	psi		
1/16"	0.10	124	1800		
	0.13	124	1800		
	0.15	117	1700		
	0.18	117	1700		
	0.20	117	1700		
	0.25	117	1700		
	0.50	96	1400		
	0.75	76	1100		
	1.00	52	750		

OD	ID (mm)	bar	psi
1/8"	1.59	69	1000
	2.10	41	600
3/16"	3.18	41	600
1/4"	4.35	45	650
1.0 mm	0.50	62	900
2.0 mm	1.00	62	900
3.0 mm	1.00	82	1200
	2.00	41	600

0.75

1.59

2.00

3.17

379

248

179

227

5500

3600

2600

3300

1/8"

1/4"

ETFE TUBING					
OD	ID (mm)	bar	psi		
1/32"	0.25	152	2200		
1/16"	0.17	200	2900		
	0.25	186	2700		
	0.50	152	2200		
	0.75	117	1700		
	1.00	83	1200		
1/8"	1.59	110	1600		
3.0 mm	1.00	138	2000		
6.0 mm	4.00	69	1000		

	PFA TUBING					
OD	ID (μm)	bar	psi			
360 µm	50	103	1500			
	75	96	1400			
	100	90	1300			
	150	75	1100			
00						
OD	ID (mm)	bar	psi			
1/16"	0.50	100	1450			
	0.75	76	1100			
	1.00	55	800			
1/8"	1.59	72	1050			
	1.70	65	940			
3/16"	3.20	41	600			
1/4"	4.35	45	650			

PTFE TUBING				
OD	ID (mm)	bar	psi	
1/16"	0.18	62	900	
	0.25	55	800	
	0.50	48	700	
	0.75	37	550	
	1.00	25	350	
1/8"	1.59	35	500	
	2.40	18	250	
1/4"	4.75	17	250	
2.0 mm	1.70	10	150	
4.0 mm	3.00	17	250	
4.76 mm	3.76	14	200	

WORKING PRESSURE FOR POLYMERIC TUBING

The quoted maximum working pressure(s) were calculated from the burst pressure and the factor 2.5.

Tolerances – PEEK tubing

Due to tighter tolerances, VICI Jour PEEK tubing is the best choice for chromatography applications in which exact flow rates or tube volume are of importance. The tighter tolerance ensures a more consistent internal volume of transfer lines.

PEEK TUBING					
Tubing OD	OD (±) (mm)	ID (±) (mm)			
360 µm	0.025	0.013			
1/32"	0.025	0.013			
1/16" *	0.025	0.013			
1/16" **	0.025	0.025			
1/8"	0.050	0.050			
* For ID up to 0.25 mm** For ID over 0.25 mm					

Tolerances – polymeric tubing

POLYM	POLYMERIC TUBING							
Tubing OD	Tubing OD (±) (mm)							
360 µm	0.025	0.013						
1/32"	0.025	0.025						
1/16"	0.050	0.025						
1/8"	0.10	0.10						
3/16'	0.10	0.10						
1/4"	0.10	0.10						

Frit volume Stainless, titanium, and polymer frits

Internal frit volumes are theoretical and are calculated by multiplying the total frit volume by the proportion of the pores in the frit (porosity proportion). Stated frit porosities are only nominal and do not relect the maximum pore size of a frit. The chart below will help you in selecting the right frit for your application.

Porosity in µm	Max pore size in µm	Particles retained in µm	Porosity in %
0.2	1	≥ 1.0	22
0.5	2	≥ 1.5	26
1	3	≥ 3.0	30
2	5	≥ 3.5 - 5.0	35
5	15	≥ 15.0	38
10	30	≥ 30	40

Standard threads

Following are illustrations of standard threads for VICI Jour fittings. Place your fitting on the drawings below to identify the thread size.

2-56	6-40	10-32	5/16-24	1/4-28	1/2-20
for 360 µm OD tubing	for 1/32" OD tubing	for 1/16" OD tubing	for 1/8" OD tubing	for 1/16" and 1/8" OD tubing	for 1/4" OD tubing
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Chemical resistance of PEEK at high temperature

Chemical	°C	°F	Rating
Acetic acid	200	420	
Ammonia gas	200	420	
Carbon monoxide gas	200	420	
Ethylene glycol	200	420	
Ethylene glycol (50%)	140	284	
Hydrogen sulphide gas	200	420	
Liquid ammonia	200	420	
Methane	200	420	
Methylethylketone	200	420	
Nitrobenzene	200	420	
Phosphoric acid (50%)	200	420	
Sodium hydroxide solution	200	420	
Sulphuric acid (50%)	200	420	
Sulphur dioxide gas	200	420	

Chemical characteristics of PEEK[®]

PEEK exhibits excellent resistance to a wide range of organic and inorganic chemicals. The compatibility of PEEK with many chemicals at 20°C (68°F) has been investigated and the results for unreinforced grades are given in the table below.

PEEK is compatible with almost any of the solvents used in HPLC. The only solvents which will attack PEEK are concentrated nitric acid and sulphuric acids. However, PEEK tubing can safely withstand 20-30% nitric acid when passivating a system.

Methylene chloride, DMSO, and THF may cause swelling in PEEK. The highest temperature we recommend for PEEK is 100°C. The tubing will maintain the stated pressure rating up to this temperature.

Chemical resistance of PEEK and other polymers

Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM
Acetaldehyde			_	-	-		-		-		
Acetic acid (20 %)											
Acetic acid (80 %)							-			_	-
Acetic acid (glacial)											
Acetone											
Acetonitrile			_	-							
Acrylic acid		_	_	-			-		-	_	-
Ammonia, anhydrous			_	-			-		-	-	-
Ammonia (10 %)										_	-
Ammonia (Liquid)			_	-			-		-	_	-
Ammonium hydroxide		_								_	-
Aqua regia			_	-			-		-		
Aromatic hydrocarbons		-					-		-	-	-
8			-					-		-	
Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM
Benzene										-	-
Benzoic acid		_	_	-			_		-	_	-
Benzaldehyde		-	_	-			-		-	-	-
Bromine/dibromoethane		-	_	-			-		-	-	-
Bromine (dry)		-	_	-			-		-	-	-
Bromine (wet)			-	-			-		-		
Boric acid		_	_	-			_		-	_	-
Butanol	_		_								



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Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM
Calcium hydroxide		_	_	_			_		_	-	
Carbon tetrachloride		_	_	_			_		_	_	_
Chlorine (gas)			_	_			_		_		
Chlorine (liquid)			_	_			_		_	_	_
Chloroacetic acid	_	_								_	_
Chlorobenzene			_	_			_		_	_	_
Chloroform										_	_
Cyclohexane										_	_
Cyclohexanone											
))			1								
Resistance at 20°C	PEEK	PA	PE	РР	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM
Diethylamine		-			-					-	
Diethylether			_	-			_		_	_	_
Diethylformamide											
Dioxane			_	_					_	_	_
		_				_					
- Resistance at 20°C	PEEK	PA	PE	РР	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM
Ethanol											
Ether										_	_
Ether											
Ethyl acetate											
Ethyl acetate Ethylene chloride	_									_	_
Ethylene chloride	-									-	-
Ethylene chloride Ethlene glycol	-										
Ethylene chloride Ethlene glycol	-	•									
Ethylene chloride Ethlene glycol Resistance at 20°C	- PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM
Ethylene chloride Ethlene glycol Resistance at 20°C Heptane	-	PA	□ ■ PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	
Ethylene chloride Ethlene glycol H Resistance at 20°C Heptane Hexane		PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM
Ethylene chloride Ethlene glycol H Resistance at 20°C Heptane Hexane Hydrobromic acid (100%)	- - PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM - -
Ethylene chloride Ethlene glycol H Resistance at 20°C Heptane Hexane Hydrobromic acid (100%) Hydrobromic acid (20%)		PA	PE	PP	PPS	FEP	ETFE	PFA B C C C C C C C C C C C C C	PTFE	NBR 	EPDM
Ethylene chloride Ethlene glycol H Resistance at 20°C Heptane Hexane Hydrobromic acid (100%) Hydrobromic acid (20%)		PA	PE	PP 	PPS	FEP	ETFE	PFA I I I I I I I I I I I I I	PTFE	NBR 	EPDM
Ethylene chloride Ethlene glycol Resistance at 20°C Heptane Hexane Hydrobromic acid (100%) Hydrobromic acid (20%) Hydrochloric acid (20%)		PA	PE	PP	PPS	FEP	ETFE	PFA PFA PFA	PTFE	NBR 	EPDM
Ethylene chloride Ethlene glycol H Resistance at 20°C Heptane Hydrobromic acid (100%) Hydrobromic acid (20%) Hydrochloric acid (100%) Hydrochloric acid (20%)	- PEEK 3 3 4 3 4 3 3 4 3 3 4 3 4 3 4 3 4 3 4	PA	PE PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR 	EPDM
Ethylene chloride Ethlene glycol Ethlene glycol Resistance at 20°C Heptane Hydrobromic acid (100%) Hydrobromic acid (100%) Hydrochloric acid (100%) Hydrochloric acid (20%) Hydrofluoric acid (20%)	- PEEK	PA	PE	PP	PPS 	FEP 	ETFE	PFA	PTFE	NBR 	EPDM
Ethylene chloride Ethlene glycol Resistance at 20°C Heptane Hydrobromic acid (100%) Hydrochloric acid (20%) Hydrochloric acid (20%) Hydrochloric acid (100%) Hydrofluoric acid (20%) Hydrofluoric acid (20%)	- PEEK	PA PA - - - - - - - - -	PE PE	PP	PPS 	FEP 	ETFE	PFA	PTFE	NBR 	EPDM
Ethylene chloride Ethlene glycol Ethlene glycol Hesistance at 20°C Heptane Hydrobromic acid (100%) Hydrochloric acid (100%) Hydrochloric acid (20%) Hydrofluoric acid (100%) Hydrofluoric acid (20%) Hydrofluoric acid (100%) Hydrogen peroxide (100%)		PA PA	PE PE	PP	PPS 	FEP 	ETFE	PFA	PTFE	NBR 	EPDM
Ethylene chloride Ethlene glycol Resistance at 20°C Heptane Hydrobromic acid (100%) Hydrochloric acid (20%) Hydrochloric acid (20%) Hydrochloric acid (100%) Hydrofluoric acid (20%) Hydrofluoric acid (20%)	- PEEK	PA PA - - - - - - - - -	PE PE	PP	PPS 	FEP 	ETFE	PFA	PTFE 	NBR 	EPDM
Ethylene chloride Ethlene glycol Ethlene glycol Resistance at 20°C Heptane Hexane Hydrobromic acid (100%) Hydrochloric acid (20%) Hydrochloric acid (20%) Hydrofluoric acid (20%) Hydrofluoric acid (20%) Hydrofluoric acid (20%) Hydrogen peroxide (100%) Hydrogen peroxide (50%) Hydrogen peroxide (10%)		PA PA	PE PE	PP	PPS 	FEP	ETFE	PFA		NBR 	EPDM
Ethylene chloride Ethlene glycol Ethlene glycol Resistance at 20°C Heptane Hydrobromic acid (100%) Hydrobromic acid (20%) Hydrochloric acid (20%) Hydrochloric acid (20%) Hydrofluoric acid (20%) Hydrofluoric acid (20%) Hydrogen peroxide (100%) Hydrogen peroxide (10%) Hydrogen peroxide (10%)		PA PA 	PE		PPS 	FEP	ETFE	PFA	PTFE 9 9 9 9 9 9 9 9 9 9 9 9 9	NBR 	EPDM
Ethylene chloride Ethlene glycol Ethlene glycol Resistance at 20°C Heptane Hydrobromic acid (100%) Hydrobromic acid (20%) Hydrochloric acid (20%) Hydrochloric acid (20%) Hydrofluoric acid (20%) Hydrofluoric acid (20%) Hydrogen peroxide (10%) Hydrogen peroxide (50%) Hydrogen peroxide (50%) Hydrogen peroxide (10%) Exesistance at 20°C Iso-octane	PEEK PEEK PEEK PEEK PEEK	PA PA	PE PE 		PPS 	FEP 	ETFE	PFA	PTFE 	NBR 	EPDM
Ethylene chloride Ethlene glycol Ethlene glycol Resistance at 20°C Heptane Hydrobromic acid (100%) Hydrobromic acid (20%) Hydrochloric acid (20%) Hydrochloric acid (20%) Hydrofluoric acid (20%) Hydrofluoric acid (20%) Hydrogen peroxide (100%) Hydrogen peroxide (50%) Hydrogen peroxide (50%) Hydrogen peroxide (10%) Exesistance at 20°C Iso-octane Isopropanol	PEEK PEEK PEEK PEEK	PA 	PE 		PPS 	FEP 	ETFE	PFA	PTFE 9 9 9 9 9 9 9 9 9 9 9 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1	NBR 	EPDM
Ethylene chloride Ethlene glycol Fasistance at 20°C Heptane Heptane Hydrobromic acid (100%) Hydrobromic acid (20%) Hydrochloric acid (20%) Hydrofluoric acid (100%) Hydrofluoric acid (20%) Hydrofluoric acid (20%) Hydrogen peroxide (100%) Hydrogen peroxide (10%) Hydrogen peroxide (10%) Bisopropanol Isopropyl ether	PEEK PEEK PEEK PEEK PEEK	PA PA	PE PE 		PPS 	FEP 	ETFE	PFA	PTFE 	NBR 	EPDM
Ethylene chloride Ethlene glycol Fesistance at 20°C Heptane Heytane Hydrobromic acid (100%) Hydrobromic acid (20%) Hydrochloric acid (20%) Hydrochloric acid (20%) Hydrofluoric acid (20%) Hydrofluoric acid (20%) Hydrogen peroxide (100%) Hydrogen peroxide (100%) Hydrogen peroxide (10%) Hydrogen peroxide (10%) Bisopropanol Isopropanol Isopropyl ether	PEEK PEEK PEEK PEEK PEEK	PA 	PE - - - - - - - - - - - - -	PP 	PPS 	FEP	ETFE	PFA	PTFE	NBR 	EPDM
Ethylene chloride Ethlene glycol Fasistance at 20°C Heptane Heptane Hydrobromic acid (100%) Hydrobromic acid (20%) Hydrochloric acid (20%) Hydrofluoric acid (100%) Hydrofluoric acid (20%) Hydrofluoric acid (20%) Hydrogen peroxide (100%) Hydrogen peroxide (10%) Hydrogen peroxide (10%) Bisopropanol Isopropyl ether	PEEK PEEK PEEK PEEK	PA 	PE 		PPS 	FEP 	ETFE	PFA	PTFE 9 9 9 9 9 9 9 9 9 9 9 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1	NBR 	EPDM

Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM
Methanol											
Methyl dichloride	_		_		_		_		_	_	_
Methyl ethylketone										_	_
Methlyene chloride											
N											
Resistance at 20°C	PEEK	PA	PE	РР	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM
Nitric acid (100%)		_								-	
Nitric acid (20%)		_								_	_
P				_			_	_			
P Resistance at 20°C	PEEK	PA	PE	РР	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM
	PEER	PA _	PE	PP	PPS	FEP	EIFE	PFA	PIFE		EPDM
Pentane Perchloric acid					_						
Phenol (dilute)		-	_	-	-		-		_	-	-
Phenol (concentrated)		-	-	-			-		-	-	-
Phosphoric acid (100%)		_								_	-
Phosphoric acid (40%)							_		_	_	
Potassium hydroxide (dilute)		-	-	-			_			_	-
Potassium hydroxide (70%)		-	-	-					-	-	-
Propanol Pyridine		-	-	-	-		-		-	_	_
•		_								_	_
S											
Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM
Sodium hydroxide (80%)							-			-	-
Sodium hydroxide (20%)										_	-
Sulfuric acid (100%)										-	-
Sulfuric acid (75%)										-	-
Sulfuric acid (40%)										-	-
Г											
Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM
Tetrahydrofuran										-	-
Toluene										-	-
Trichloroacetic acid										-	-
Trichloroethane			-		-		-			-	-
Trichloroethylene			-	-			-		-	_	-
Triethylamine	-		-		-					-	-
W											
Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM
Water											
Water (distilled)		_								-	-
X											
								-			1
Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM



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Properties of polymers

CTFE

Chlorotrifluoroethylene, is the generic name for the material produced as Kel-F®. It is very resistant to all chemicals except THF and some halogenated solvents, and is resistant to all inorganic corrosive liquids, including oxidizing acids. CTFE can be used at temperatures up to 100°C. Swells in ketones.

EPDM

Ethylene Propylene Diene Monomer. Ethylenepropylene synthetic rubbers offer excellent heat resistance as well as resistance to aging from oxidation, ozone, and weather due to their stable, saturated polymer backbone structure. As non-polar elastomers, they have good electrical resistivity as well as resistance to polar solvents such as water, acids, alkanes, phosphates, esters, and many ketones and alcohols.

ETFE

Ethyltrifluoroethylene is the generic name for the material such as Tefzel[®]. A fluoropolymer used for sealing surfaces, it is resistant to most chemical attack; however, some chlorinated chemicals will cause a physical swelling of ETFE tubing.

FEP

Fluorinated ethylene propylene is another member of the fluorocarbon family with similar chemical properties. It is generally more rigid than PTFE, with somewhat increased tensile strength. It is typically more transparent than PTFE, slightly less porous, and less permeable to oxygen. FEP is not as subject to compressive creep at room temperature as PTFE, and because of its slightly higher coefficient of friction is easier to retain in a compression fitting.

FFKM

FFKM (perfluorinated rubber) is a perfluoroelastomer, a class of materials such as Kalrez[®]. It is chemically resistant to polar solvents, organic solvents, inorganic and organic acids and bases, fuels, oils, lubricants, inorganic salts, aldehydes, metal halogen compounds, chlorine, sodium hydroxide, aromatics, alcohols, steam, and strong oxidizing agents. The normal temperature service range is -40°C to 315°C, with up to 343°C in intermittent service.

PEEK™

Considered relatively inert and biocompatible, polyetheretherketone tubing can withstand temperatures up to 100°C. Under the right circumstances, .005" - .020" ID tubing can be used up to 5000 psi for a limited time, and 0.030" to 3000 psi. Larger IDs are typically good to 500 psi. These limits will be substantially reduced at elevated temperatures and in contact with some solvents or acids.

Its mechanical properties allow PEEK to be used instead of stainless in many situations and in some environments where stainless would be too reactive. However, PEEK can be somewhat absorptive of solvents and analytes, notably methylene chloride, DMSO, THF, and high concentrations of sulfuric and nitric acid. This tubing is highly prone to "kinking", or sealing off, if held in a sharp bend over time.

PFA

Perfluoroalkoxy is a fluorocarbon with chemical and mechanical properties similar to FEP. More rigid than either PTFE or FEP. Commonly used for injection molded parts.

PPS

Polyphenylene sulphide is the generic name for the material produced as Fortron[®], Ryton[®], and Techtron[®]. It is very resistant to all solvents, acids, and bases.

PTFE

Polytetrafluoroethylene is the generic name for the class of materials such as Teflon[®]. It offers superior chemical resistance but is limited in pressure and temperature capabilities. Because it's so easy to handle, it is often used in low pressure situations where stainless steel might cause adsorption. PTFE tubing is relatively porous, and compounds of low molecular weight can diffuse through the tubing wall.

Polyacetal

Polyacetal or polyoxymethylene (POM) is the generic name for the material produced as Delrin[®]. It is an engineering polymer with high mechanical strength and rigidity, excellent dimensional stability and excellent resistance to moisture and solvents. It has a wide useful temperature range in air of -50°C to +90°C. It is not suitable for use with acids, alkalis, or oxidizing agents, and has limited resistance to dichloromethane and methyl ethyl ketone.

Continued, next page.



Polyamide

Polyamide is a thermoplastic polymer also known as nylon. Nylon has very good physical properties, but moisture can have a significant effect. It exhibits very good heat resistance and excellent chemical and wear resistance.

Polyethylene

Polyethylene is a semi-crystalline material with excellent chemical resistance, plus good fatigue and wear resistance. Polyethylenes provide good resistance to organic solvents and staining, and have low moisture absorption rates.

Polypropylene

Widely used polymer for non-wetted parts. Attacked by strong oxidizers as well as aromatic and chlorinated hydrocarbons.

PVDF

PVDF, or polyvinylidene fluoride, has excellent resistance to most mineral and organic acids, aliphatic and aromatic hydrocarbons, and halogenated solvents. Poor resistance to acetone, MEK, THF, and potassium and sodium hydroxide. Often supplied as Kynar[®].

Properties of metals

Stainless steel, Type 316

This is the standard tubing material for chromatography, suitable for a wide variety of applications. It is cold drawn seamless, not welded, with close tolerances held on both ID and OD. We neither recommend nor offer Type 304 stainless steel for analytical applications.

Austenitic stainless steels may be used for most chromatographic applications. Type 316 is most commonly used for HPLC because of its superior chloride ion resistance.

Stainless steel, Type 303

Recommended for GC use and general purpose connections, combining excellent machining characteristics with good resistance to corrosion and high temperature oxidation. Susceptible to attach by chlorides, iodides, and bromides.

Titanium

Although it is more difficult to machine than common alloys containing aluminum and vanadium, VICI uses Grade 2 pure titanium in order to avoid possible contamination of the sample stream with these metals. Good for organic and inorganic salts except aluminum and calcium chlorides, and all alkalis except boiling concentrated potassium hydroxide.

Good with dilute, low temperature formic, lactic, sulfuric, hydrochloric, and phosphoric acids, but rapidly attacked by hydrofluoric acid. Good with dilute nitric acid at low temperatures; corrodes at high concentrations and temperatures. Can ignite with fuming nitric acid. Attacked by oxalic acid, concentrated phosphoric acid, hot trichloroacetic acid, and zinc chloride.



Safety

- 1. Never tighten or loosen a fitting or valve connection while it is pressurized. Provisions should be made within the system to release pressure via suitable valve components.
- 2. Do not exceed pressure or temperature specifications. Note that in many cases, the system pressure is limited by the tubing used, not the fittings.
- 3. The use of toxic or hazardous fluids requires extra caution during operation or maintenance. The user is responsible for insuring safe operation and for understanding the nature of the fluids and chemistry involved.
- 4. The use of thread lubricants or sealants is required only on tapered pipe threads. These sealants and lubricants may have different temperature limits or chemical compatibility than the valves or fittings.

Trademarks

Trademarks of materials and products found in VICI Jour products or referred to in this website. Please contact us regarding errors, omissions, or discrepancies.

Cheminert® Delrin®	Valco Instruments Co. Inc. and VICI AG International E.I. duPont de Nemours
Duran®	Schott AG
Fortron®	Fortron Industries LLC
Kalrez®	DuPont Dow Elastomers
Kel-F [®]	3M Company
Kynar®	Elf Atochem North America Inc.
Nanovolume®	Valco Instruments Co. Inc.
PEEK™	Victrex plc
PEEK HT™	Victrex plc
Rheodyne®	Rheodyne LLC
Ryton®	Chevron Phillips Chemical Company LLC
SCAT®	SCAT-Europe GmbH
Techtron®	Quadrant Engineering Plastic Products
Teflon®	E.I. duPont de Nemours
Valco®	Valco Instruments Co. Inc.
VICI®	Valco Instruments Co. Inc. and VICI AG International
VICI Jour®	Valco Instruments Co. Inc. and VICI AG International



The improper selection or use of components or systems described herein can cause personal injury or property damage.

The system designer and user are solely responsible for the selection of products suitable for the specific requirements of the application, as well as proper installation, operation, and maintenance of these products.

Compatibility with hazardous fluid streams, environmental conditions, and mechanical requirements are the responsibility of the user.



Α

Adapter

A type of fitting which provides a method of joining two components of differing thread types or systems.

Analytical column

A long narrow tube packed or coated with one of many available chemically diverse compounds that can separate the components in a sample according to their boiling point, polarity, molecular size, or combination thereof. A column of some kind is used with most chromatographic techniques.

В

Biocompatibility

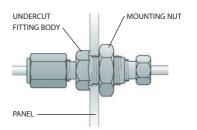
Defines the materials used in a system (i.e. fittings, tubing, and valves) that do not change the bioactivity of the biological substances that come into contact with the surface of these materials. Note that in chromatographic systems, the tubing and column contribute over 99% of the surface area and the valves and fittings are insignificant.

Bore

The diameter of the minimum orifice through the fitting. See capillary bore, through-type bore, and large bore.

Bulkhead fitting

A type of fitting in which the fitting body is inserted through an instrument panel or mounting bracket, to which it is affixed with a mounting nut. The Valco fitting body is uniquely undercut so that it "bites" into the panel when the mounting nut is tightened, eliminating the need for a lock washer.



Butt connection

A type of connection in which the two tube ends are directly and squarely in contact, usually effected with a through-type union. Typically used with fused silica connections, or small bore metal tubing.

С

Cap

A cap is used to dead-end a piece of tubing with a nut and ferrule attached.

Capillary bore

The smallest available standard orifice in a given fitting design (usually 0.25 mm). Typically denoted by suffix "C" in the product number.

Collapsible ferrule

A one-piece ferrule engineered to collapse as it is tightened. The collapse takes place in two very narrow areas, and results in a very effective seal with virtually no distortion of the tubing ID and no dead volume. Patent No. 6,575,501

Compression fitting

A style of fitting in which a threaded nut compresses a tapered ferrule onto tubing as the nut is tightened. Valco metal ferrules cut a ring into the tubing wall while polymer types rely on surface compression to form a seal.

Connecting volume

The volume between two or more connections. This may be cleanly swept, thus not contributing to peak distortion, or may be "dead volume" such as that found in fittings with larger bores than the connecting tubing.

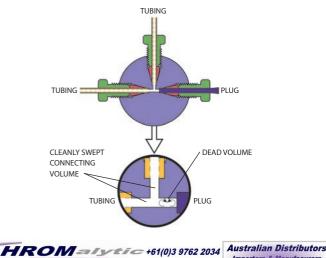
Cross

A type of distribution fitting which connects four pieces of tubing, arranging them in the pattern of a cross.

D

Dead volume

Any volume which a component introduces to a system that is not cleanly swept and relies on diffusion to clear the space. See connecting volume.



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Detail

See fitting detail.

Distribution fitting

A generic term for tees, crosses, and manifolds, used to provide multiple access points to "distribute" a gas or liquid through a system. CAUTION! Using a distribution fitting in reverse to coalesce multiple streams may create dead volume. Special manifolds are available for this application.

F

FIA

Flow Injection Analysis.

A simple and versatile analytical technique for automating wet chemical analyses based on the manipulation of a sample zone formed from the injection of the sample into a continuous stream of fluid used as a carrier.

Female nut

A nut with female threads; also called external nut.

Ferrule

One of the components of a compression fitting; the conical piece of metal or plastic that compresses onto the tube as it is forced into a tapered seat. Valco metal ferrules are unique in that they attach to and seal at the tube by cutting a shallow ring into it, instead of by actually swaging it. This is preferable since it introduces no flow restriction.

Filter

A type of union or reducing union which traps the particulates in a stream. The filtering element is typically a mesh screen or sintered frit.

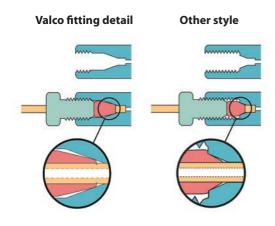
Fingertight fitting

A fingertight fitting is a knurled or winged nut which is hand tightened to compress the ferrule. Note: Polymeric ferrules rely on surface compression to form a seal and hold the tube by friction.

Fitting detail

A fitting detail includes the thread to accept the nut, a tapered ferrule seat, and the pilot for the tube. The nut, ferrule, and tube go into the fitting detail to make the seal.

Valco fitting details have the perfect shape, with a smooth transition from the ferrule seat into the cylindrical and threaded part. Many other fitting details are poor in design where the ferrule is forced in a too shallow ferrule seat. The result is a "nicked" ferrule which can no longer apply its sealing force to the front of the ferrule.



Flanged fitting

A type of fitting used with fluoropolymer tubing (PTFE, FEP) in which a flange is made at the tube end. Connections are made at the flange either by compressing the flange into a flat detail (typically 1/4-28 threaded) or by butting two flanges together. A special flanging tool forms the flanges.

Flangeless fitting

Similar in application to the flanged fitting, but the flange is not required. A ferrule system is used which grips/compresses the tube. This fitting type can be used with virtually any polymeric tubing since the tube end does not have to be formed, but simply square cut. Typically used in 1/4-28 threaded fittings, it is usually interchangeable with flanged fittings.

Frit

A filter element typically made of stainless, Hastelloy, Titanium, or polymers, usually 0.75 mm or 1 mm thick. Frits may provide better filtration than screens, but because they are thicker there is greater mixing potential, and they typically result in increased pressure drop.



G

GC

Gas Chromatography.

An analytical method incorporating an injection system, analytical column, controlled temperature zone, and detector. An inert carrier gas moves the sample through the column, which separates the sample components into discrete bands which are measured as they pass through the detector.

Guard column

A column used in series between the injector and analytical column to prevent certain types of components from entering the analytical column.

Н

HPLC

High Performance Liquid Chromatography. An analytical system consisting of an injector, pump, analytical column, and detector. Using a liquid mobile phase, the sample is pumped through the column, where it is separated into discrete sample component bands which are detected and measured as the bands elute from the column.

Ľ

ID

Internal diameter.

Inert

Technically, unreactive with other substances; however, in the instrumentation field, "inert" is a relative term. Often polymers are termed inert but are soluble in some fluids and can react with some compounds.

Internal fitting

A type of compression fitting in which the fitting body has female threads; an internal nut has male threads.

Ē

LC

Liquid Chromatography.

Any of a variety of low to medium pressure techniques which use a liquid mobile phase as the carrier to move sample. Similar to HPLC.

Large bore

A bore that is larger than the standard for a given fitting; a fitting ordered with a large bore will have a larger flow orifice than the standard or capillary bore fitting of the same design. Denoted by suffix "L" in the product number.

Luer adapter

An adapter that connects a tapered luer fitting (square nib) of a syringe to a tube or tube fitting.

Μ

Male nut

A nut with male threads.

Make up

The point at which a ferrule, nut, and tube are assembled in the fashion which will effect a leak-free seal. In most compression fittings, that is accomplished by compressing the tube with the small end of the ferrule. With Valco metal ferrules, the ferrule usually makes up on the tube by cutting a shallow ring in it.

Manifold

A type of distribution fitting in which a single source is directed to multiple outlets, or vice versa. Caution! Using a common distribution fitting in reverse to merge multiple streams may create dead volume. Special manifolds are available for this application.

Microbore column

A liquid chromatography column of narrow bore (typically 2 mm or less) for improved resolution.

Ν

NPT

National Pipe Thread; a standardized tapered pipe fitting. See pipe thread.

Nanobore

Nanobore generally refers to components with bore sizes less than 250 μm (0.010").

Nanovolume®

The trademark registered to Valco Instruments Co. Inc. and VICI AG International, applied to our nanobore components with bore sizes less than $250 \ \mu m \ (0.010")$.

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Nut

The tensioning component of a compression fitting. As the threaded nut is tightened into the fitting detail, it pushes the ferrule forward into the tapered ferrule seat, causing it to make up on the tube.

0

OD

Outside diameter.

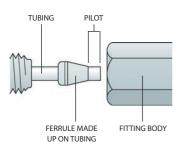
One-piece fingertight

A one-piece fingertight fitting is a knurled or winged nut with integrated ferrule. It is convenient to use since the ferrule is retrieved from the port with the nut. Note: Polymer type ferrules rely on surface compression to form a seal and hold the tube by friction.

Ρ

Pilot

The tubing which extends beyond the ferrule in a made-up fitting, or the integral portion of a ZRF internal reducing ferrule which extends beyond the ferrule. See also pilot depth, below.



Pilot depth

The length of the tubing diameter cavity beyond the tapered ferrule seat within a fitting detail. Valco fitting pilot depths are tightly controlled to facilitate the interchangeability of components without the risk of leaks or dead volume.

Pipe thread

The external or internal threads of a fitting designed to effect a metal-to-metal seal on the conical thread faces. This type of fitting does not "bottom out" in the detail. Typically used with PTFE tape or other compound to lubricate the threads; however, since the diffusion rate of air components through the PTFE tape is considerable, pipe fittings should not be used in systems where leakage rates are critical.

Plug

A plug is used to block a fitting detail in a union, tee, cross, or valve.

R

Reducing ferrule

A ferrule which allows a smaller tube to be used in a fitting detail designed for a larger tube. Caution should be taken if standard reducing ferrules without integral pilots are used, since dead volume may be created in the fitting pilot depth.

Reducing union

A fitting which joins two tubes of different ODs. The bore of the fitting should typically match the ID of the smaller tube.

S

SFE

Supercritical Fluid Extraction. An extraction technique using a fluid in its supercritical state as the extraction medium. Some liquids and mixtures maintained above a critical temperature and pressure exhibit properties of both the liquid and gas phases of the element. These are defined as supercritical. CO_2 is a common supercritical fluid. Extreme caution must be used with supercritical CO_2 , since uncontrolled expansion (leaks) can be very hazardous due to the substantial stored energy.

SFC

Supercritical Fluid Chromatography. An analytical technique using a supercritical fluid (see SFE) as the mobile phase/carrier.

Standard bore

A bore which was chosen as the standard for a particular fitting, typically based on the most common tubing ID used with that fitting.



Т

Tee

A type of distribution fitting which connects three pieces of tubing, arranging them in the pattern of a "T".

Through-type bore

A bore which is slightly larger than the OD of the tubing which is used with the given fitting. A union with a through-type bore allows the tube ends to butt directly together, or for one tube to run completely through the fitting. Denoted by suffix "T" in the product number. In order to assure correct pilot lengths, we recommend that ferrules be made up on the tubing in a standard union.

U

Union

A fitting for connecting two pieces of tubing of the same OD.

See also reducing union.

Female union

A type of compression fitting in which the fitting body has female threads. Also referred to as internal union.

Male union

A type of compression fitting in which the fitting body has male threads. Also referred to as external union.

Unswept volume

The volume of any portion of a fitting which is in the flowpath but which is a different diameter than the primary flow orifice through the tubing/fitting assembly, or any area not directly swept by the fluid flow. This can also be known as "dead volume" if it is very poorly swept.

V

VICI

VICI[®] is an acronym for Valco Instruments Company Inc.

VICI now defines multiple companies which manufacture various products for the analytical industry.

W

Wetted surfaces

The surfaces which are contacted by the sample stream.

Υ

Y ("Wye")

A type of distribution fitting which connects three pieces of tubing, arranging them in the pattern of a "Y". Occasionally referred to as a "wye".

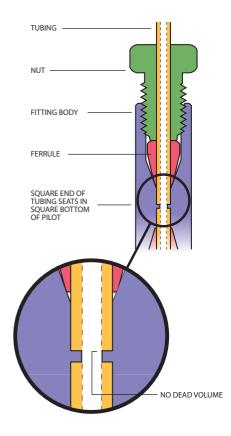
Ζ

ZDV

Zero dead volume. See definition below.

Zero dead volume

Describes a connection which does not add volume to the system beyond what an extension of tubing would in its place.



Zero volume

While often used interchangeably with zero dead volume, it ideally describes a fitting design in which there is no internal volume, such as a through-type union designed to buttfit two pieces of tubing.



Temperature conversions

•												
°C	°F		°C	°F		°C	°F]	°C	°F	°C	°F
-40	-40		65	149		170	338		275	527	500	932
-35	-31		70	158		175	347		280	536	525	977
-30	-22		75	167		180	356		285	545	550	1022
-25	-13		80	176		185	365		290	554	575	1067
-20	-4		85	185		190	374		295	563	600	1112
-15	5	1	90	194	1	195	383	1	300	572	625	1157
-10	14		95	203		200	392		305	581	650	1202
-5	23		100	212		205	401		310	590	675	1247
0	32	1	105	221	1	210	410	1	315	599	700	1292
5	41		110	230		215	419		320	608	725	1337
10	50		115	239		220	428		325	617	750	1382
15	59	1	120	248	1	225	437		330	626	775	1427
20	68		125	257		230	446		335	635	800	1472
25	77		130	266		235	455		340	644	825	1517
30	86	1	135	275	1	240	464	1	345	653	850	1562
35	95	1	140	284	1	245	473	1	350	662	875	1607
40	104		145	293		250	482		375	707	900	1652
45	113		150	302		255	491		400	752	925	1697
50	122		155	311		260	500]	425	797	950	1742
55	131		160	320	1	265	509	1	450	842	975	1787
60	140		165	329		270	518		475	887	1000	1832

Length

μm	inches
100	.004"
150	.006"
mm	inches
0.050	.002"
0.064	.0025"
0.075	.003″
0.100	.004"
0.13	.005"
0.15	.006"
0.18	.007"
0.20	.008"
0.25	.010"
0.38	.015"
0.40	.016"
0.50	.020"
0.75	.030"
1.00	.039"
1.50	.059"
2.00	.079"
3.00	.118"
4.00	.157"
4.60	.181"
6.00	.236"
6.35	.250"
6.40	.252"
7.00	.276"
10.00	.394"
12.70	.500"
inches	mm
1/32"	0.79

D		•
Pressure	convers	inns
I ICSSUIC	CONVENS	10115

bar	psi	kPa	MPa
0.1	1.5	10	0.01
0.2	2.9	20	0.02
0.3	4.4	30	0.03
0.4	5.8	40	0.04
0.5	7.3	50	0.05
0.6	8.7	60	0.06
0.7	10.2	70	0.07
0.8	11.6	80	0.08
0.9	13.1	90	0.09
1	14.5	100	0.1
2	29.0	200	0.2
3	43.5	300	0.3
4	58.0	400	0.4
5	72.5	500	0.5

bar	psi	kPa	MPa
6	87.0	600	0.6
7	101.5	700	0.7
8	116.0	800	0.8
9	130.5	900	0.9
10	145	1,000	1
20	290	2,000	2
30	435	3,000	3
40	580	4,000	4
50	725	5,000	5
60	870	6,000	6
70	1,015	7,000	7
80	1,160	8,000	8
90	1,305	9,000	9

1
)

12.70	.500"			
inches	mm			
1/32"	0.79			
1/16"	1.59			
3/32"	2.38			
1/8"	3.18			
1/4"	6.35			
5/16"	7.94			
3/8"	9.50			
1/2"	12.70			
1"	25.40			
feet	mm			

1 ft

304.8



JR5FR1-573	JR-08235	JR-201928-1041	JR-4676-10TF51	JR-5511-523	JR-6826455	JR-BPR1KF88
JR5FR1TI-573	JR-083-535	JR-20199964	JR-4676-251	JR-5520-1019	JR-68264P55	JR-BPR2KF88
JR5FR2-573	JR-08635	JR-201999-1048	JR-4676-2.5TF51	JR-5525-1019	JR-68330-0557	JR-C360C39
JR5FR4-573	JR-087-535	JR-202118-1043	JR-4676-5TF51	JR-5570-522	JR-68330-257	JR-C360CFS39
JR5FR6-573	JR-09635	JR-202119-1043	JR-4677-1051	JR-5580-523	JR-68330-557	JR-C360CPK38
JR-031-1041	JR-097-535	JR-202120-1043	JR-4677-10TF51	JR-559529	JR-68331-0557	JR-C360ET38
JR-032-1041	JR-103028	JR-202121-1043	JR-4677-251	JR-56-531	JR-68331-257	JR-C360NFFS39
JR-040 RE-1042	JR-103228	JR-202122-1043	JR-4677-2.5TF51	JR-57-531	JR-68331-557	JR-C360NFPK38
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	JR-106544	JR-20223585	JR-55012-517	JR-603246	JR-79287	JR-C360QUPK238
JR-041-1041	JR-1066	JR-202235		JR-603346	JR-79287	
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JR-049-1041	JR-106726	JR-203228	JR-55014-517	JR-603446	JR-79486	JR-C360QXPK238
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JR-050GR-1042	JR-10FR2-573	JR-204328	JR-55021-520	JR-604246	JR-79886	JR-C360RU.5FS439
JR-050WH-1042	JR-10FR4-573	JR-2650179	JR-55021-526	JR-604346	JR-80088	JR-C360RU.5FS639
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JR-0611 TI05-354	JR-1102-05P-574	JR-2FR1KTI-573	JR-5504-520	JR-65002NF77	JR-9000-000562	JR-C360UFS239
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JR-07501348	JR-201926-1041	JR-4676-1051	JR-55110-519	JR-6826355	JR-BPR188	JR-C-NL.20L-537
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JR-C-NL.20S-5	JR-S-1831468	JR-SLV-75-100081	JR-T-5720-**6	JR-T-6801-**12	JR-T-9710014	JR-ZU1XC34
JR-C-NL.25L-5	JR-S-2000260	JR-SLV-75-2081	JR-T-5764-**6	JR-T-6802-**11	JR-T-9710514	JR-ZUFLPK29
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JR-C-NL.30S-537	JR-S-2000560	JR-SLV-75-5081	JR-T-5804-**6	JR-T-6803C-**10	JR-TD-6007-**7	JR-ZX1M33
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JR-F-255-079-10PE-5.72	JR-S-4000460	JR-SLV-76-5	JR-T-5998C-**6	JR-T-680911	JR-TSS.510-**15	
JR-FPKBSS.5-10	JR-S-4000665	JR-SLV-76-5082	JR-T-5999-**	JR-T-681012	JR-TSS.520-**15	
JR-FPKBSS1-10	JR-S-4000768	JR-SLV-76-50082 JR-T-078-**9	JR-T-6000-**	JR-T-6811-**12 JR-T-6812-**11	JR-TSS105-**15 JR-TSS110-**15	
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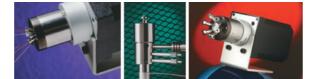
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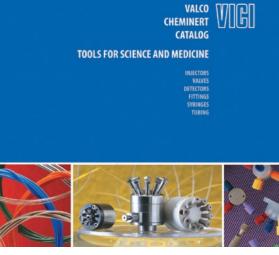
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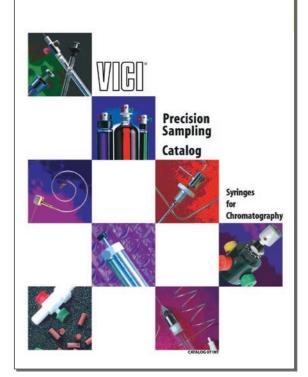
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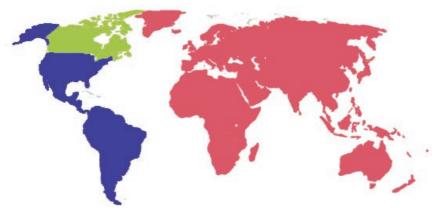
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