

VICI Jour® 2009

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including INSTRUMENTATION Valves



Chromatography Fluid/Gas Transfer

Catalog 10 Int

AUSTRALIAN Distributors

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VICI Jour

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

Filters & mobile phase filters

Mobile phase handling systems

Frits

PEEK columns & guard columns

Sample loops

Accessories/miscellaneous

VICI Jour Research AB of Sweden is now a part of VICI AG International in Switzerland. The complete Jour line of accessories and consumables for fluid transfer in HPLC and LC is available from VICI AG International and through its international distributor network.



VICI 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.

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JOUR Products

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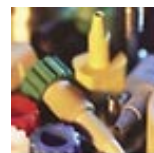
Tubing for Chromatography

PEEK, PEEK-clad fused silica, electroformed nickel, stainless, PTFE, and more, plus unique tubing accessories and tools.



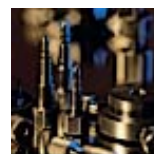
High Pressure Polymeric and Stainless Fittings

Stainless and polymeric fittings, starter kits, and tools.



Nanovolume Fittings

High pressure fittings with a choice of 100 or 150 micron bore.



Low Pressure Polymeric Fittings

Basic flanged and flangeless nuts, plus an array of adapters and connectors.



Filters and Mobile Phase Filters

Last Drop Filter, filter/spargers, in-line filters, and pre-column filters.



Mobile Phase Handling Systems

Bottles, specialized caps, and check valves.



Frits

PAT, stainless steel, and Titanium frits in a variety of sizes and porosities.



PEEK Columns and Guard Columns

High pressure biocompatible PEEK columns, guard columns, couplers, and end plugs.



CUSTOMER SUPPORT

Sample Loops

PEEK and stainless loops for most popular injectors.



Accessories/Miscellaneous

Back pressure regulators and Mininert valves.



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VICI Jour offers an assortment of chromatography grade tubing in 1/32", 1/16", 1/8", and 1/4" ODs, in PEEK, PEEK-clad fused silica, electroformed nickel, stainless, PTFE, and more. You'll also find unique tubing accessories and tools.



Tubing

PEEK tubing

PEEKclad-FST™

Premium grade stainless steel tubing

Premium grade stainless steel tubing, pre-cut

Stainless steel tubing

Electroformed nickel tubing

No-Ox tubing

PTFE, PFA, FEP, or ETFE tubing

Thermo-formed polymeric tubing

Knitted PTFE reaction coils

Tools and Accessories

PEEK tubing elbows

Tubing Clip – the LC tubing organizer

Clean Cut polymer tubing cutter

Guillotine polymer tubing cutter

Stainless steel tubing cutter

Stainless steel tubing pliers

Easy-Flange and Easy-Flange Combi Kits

Disclaimer

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

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VICI Jour offers PPS and PEEK one-piece fittings, fingertight or hex, plus unions, tees, crosses, adapters, and more.

High Pressure Polymeric Fittings

One Piece fittings

[Hex-head/fingertight, PPS](#)

[Fingertight, color-coded PEEK](#)

[Fingertight, natural PEEK](#)

[Hex-head, natural PEEK](#)

PEEK nuts

[For use with double ferrule](#)

[For use with single ferrule](#)

[Color-It fingertight adapters](#)

[PEEK unions](#)

[PEEK tees, crosses, and manifolds](#)

[Biocompatible mixing tee](#)

[PEEK plugs and caps](#)

[PEEK adapters](#)

[Thread conversion](#)

[Port and Luer adapters](#)

[PEEK starter kit](#)



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[High pressure nanovolume fittings](#)

[High pressure stainless steel fittings](#)

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VICI Nanovolume® fittings are designed for capillary LC used in HTS techniques, proteomics, genomics, and other newer developments in industrial routine research.

High Pressure Nanovolume Fittings

[Nuts and ferrules](#)

[Unions and reducing unions](#)

[Tees, crosses, and Y's](#)

[Liners for fused silica tubing connections](#)



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VICI Jour offers stainless steel nuts and ferrules for Valco and Rheodyne fitting styles, plus unions, tees, crosses, and more.

High Pressure Stainless Steel Fittings

Nuts and ferrules

[Valco](#)

[Rheodyne®](#)

[Unions](#)

[Tees and crosses](#)

[Plugs and caps](#)

[Starter kit](#)

[ChromBox kit](#)



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PEEK, polyacetal, and polypropylene color-coded nuts, fingertight adapters, unions, tees, crosses, and much more.

Low Pressure Polymeric Fittings

PPS nuts for flat bottom 1/4"-28 fitting details

[Flangeless type, collapsible ferrule](#)

[Flangeless type, inverted ferrule](#)

[Flanged type](#)

[Color-Sleeve fingertight adapters](#)

[Color-coded fingertight nuts](#)

[PEEK, flangeless](#)

[Polyacetal, flangeless](#)

[Polypropylene, flanged](#)

[Flanged tubing connector](#)

[Unions](#)

[Bulkhead unions](#)

[Tees, crosses, and manifolds](#)

[Biocompatible mixing tee](#)

[Polypropylene adapters](#)

[Manual flow selection valves](#)

[Peristaltic tubing adapter set](#)

[Flanged fitting kit](#)



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VICI JOUR - Filters and Mobile Phase Filters

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Check out a variety of filters including our unique offerings such as the Last Drop mobile phase filter and the Sure Guard filter.

Filters and Mobile Phase Filters

Mobile phase filters

[Last Drop mobile phase filter](#)

[Last Drop – economy version](#)

[Last Drop filter/sparger](#)

[No Met biocompatible mobile phase filter](#)

[Stainless steel mobile phase filter](#)

Helium spargers

[Last Drop filter/sparger](#)

[Stainless steel helium sparger](#)

Low pressure in-line filter cartridges

High pressure filters

[PEEK in-line filter kit](#)

[Sure-Guard disposable in-line filter](#)

[Stainless steel in-line filter](#)

[PEEK pre-column filter kit](#)



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Accessories/miscellaneous

A variety of specialized bottles, caps, and accessories for mobile phase handling systems.

Mobile Phase Handling Systems

Safety-coated glass bottles

VICI-Cap

Eco-Cap

SolviFlex

Check valve for helium sparging line



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VICI JOUR - Frits

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CUSTOMER SUPPORT

Frits for most any application

Frits

PAT frits

Standard

PEEK-encased

Stainless steel frits

Unidense type

PEEK-encased

Titanium frits

Unidense type

PEEK-encased



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VICI Jour - PEEK Columns and Guard Columns

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- Nanovolume
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- Polymeric

Low pressure fittings

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Mobile phase handling systems

Frits

PEEK columns & guard columns

Sample loops

Accessories/miscellaneous

Biocompatible PEEK columns in a variety of IDs, plus all the necessary accessories.

PEEK Columns and Guard Columns

PEEK Columns

2.1 mm ID

4.0 mm ID

4.6 mm ID

7.5 mm ID

Packing devices and spare parts

In-line biocompatible guard column

Column coupler – one-piece fingertight

Column end plugs



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VICI JOUR - Sample Loops

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Sample loops

Accessories/miscellaneous

PEEK and stainless loops for popular injectors, in a variety of sizes.

Sample Loops

ValvTool

Loops for Valco valves

PEEK

Stainless steel

Loops for Cheminert valves

PEEK

Stainless steel

Loops for Rheodyne valves

PEEK

Stainless steel



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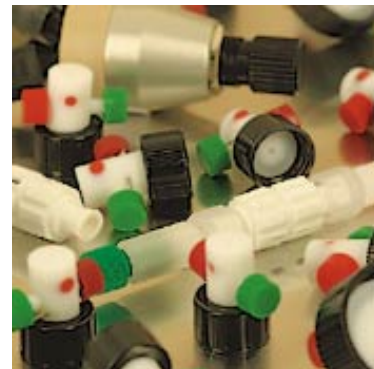
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Backpressure regulators to improve baseline stability,
and Mininert valves for sealing glass vials

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[Backpressure regulators](#)

[VICI Mininert valves for vials](#)



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Information about properties of PEEK and other polymers, conversion charts, etc.

Physical Data & Info

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[Flexural properties of PEEK](#)
[Unit conversions \(pdf file\)](#)
[Physical data about the PEEK and other polymers that we use](#)

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PEEK & Polymer Chemical Resistance

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 solvent which will attack PEEK are concentrated nitric acid and sulphuric acids.

A = Suitable

B = Marginal-dependent on application

C = Not recommended

However, PEEK tubing can safely withstand 20–30% nitric acid when passivating a system.

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

PEEK and Polymer chemical resistance

Resistance at 20 °C	PEEK	Poly-ethylene	Poly-propylene	PPS	PVDF	PTFE	ETFE
Acetaldehyde	A						
Acetic acid (20%)	A	A	A	A	A	A	A
Acetic acid (80%)	A	A	A	A	B	A	
Acetic acid (glacial)	A	A	A	A	A	A	A
Acetone	A	B	A	A	C	A	A
Acetonitrile	A			A		A	A
Acrylic acid	A			A			
Ammonia, anhydrous	A			A			
Ammonia (10%)	A	B	A	A	A	A	A
Ammonia (Liquid)	B			A			
Ammonium hydroxide	A	A	A	A	A	A	A
Aqua regia	C			C			
Aromatic hydrocarbons	A	B	C	A			
Benzene	A	B	C	A	A	A	A
Benzoic acid	A			A			
Benzaldehyde	A			A			
Bromine/dibromoethane	C			C			
Bromine (dry)	C			C			
Bromine (wet)	C			C			
Boric acid	A			A			
Butanol	A	A	A	A	A	A	A
Calcium hydroxide	A			A			
Carbon tetrachloride	A			A			
Chlorine (gas)	A			C			
Chlorine (liquid)	C			C			
Chloroacetic acid	A	B	B	A	A	A	A
Chlorobenzene	A			A			
Chloroform	A	B	B	A	A	A	A
Cyclohexane	A	B	C	A	A	A	A
Cyclohexanone	A	C	C	A	C	A	A
Diethylamine	A	C	A		C	A	A
Diethylether	A			A			
Diethylformamide	A	A	A	A	C	A	A
Dioxane	A			A			A
Ethanol	A	B	A	A		A	A
Ether	A	B	C	A	B	A	A
Ethyl acetate	A	B	A	A	C	A	A
Ethylene chloride		B	B	A	A	A	A
Ethylene glycol	A	A	A	A	A	A	A
Heptane	A	B	B	A	A	A	A
Hexane	A	B	B	A	A	A	A
Hydrobromic acid (100%)	C	B	B	A	A	A	

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PEEK & Polymer Chemical Resistance (cont.)

PEEK and Polymer chemical resistance

Resistance at 20 °C	PEEK	Poly-ethylene	Poly-propylene	PPS	PVDF	PTFE	ETFE
Hydrobromic acid (20%)	C	B	A		A	A	A
Hydrochloric acid (100%)	A		B	C	A	A	A
Hydrochloric acid (20%)	A	A	B	C	A	A	A
Hydrofluoric acid (100%)	C		B	C	A	A	A
Hydrofluoric acid (20%)		A	A	A	A	A	A
Hydrogen peroxide (100%)	A	B	B	C	A	A	
Hydrogen peroxide (50%)	A	B	B		A	A	A
Hydrogen peroxide (10%)	A	A	A	A	A	A	A
Iso-octane	A		A	A	A	A	
Isopropanol	A	A	A	A		A	
Isopropyl ether		A	B		C	A	
Ketones	A	B	B	A	B	A	
Methanol	A	A	A	A	A	A	A
Methyl dichloride			C		C		
Methyl ethylketone	A	B	B	A	C	A	A
Methylene chloride	B	B	B	A	B	A	A
Nitric acid (100%)	C	B	C	C	C	A	A
Nitric acid (20%)	A	B	A	C	A	A	A
Pentane	A	C	C		A	A	
Perchloric acid	A	B	B		A	A	
Phenol (dilute)	A			A			
Phenol (conc.)	C			A			
Phosphoric acid (100%)	A	B	A	A	B	A	A
Phosphoric acid (40%)	A	A	A	A	B	A	A
Potassium hydroxide (dilute)	A			A			
Potassium hydroxide (70%)	A			A			
Propanol	A						
Pyridine	A	B	A	A	C	A	A
Sodium hydroxide (80%)	A	B	A	A	C	A	
Sodium hydroxide (20%)	A	A	A	A	A	A	A
Sulphuric acid (100%)	C	B	B	A	A	A	A
Sulphuric acid (75%)	C	A	A	A	A	A	A
Sulphuric acid (40%)	A	A	A	A	A	A	A
Tetrahydrofuran	B	B	B	A	B	A	A
Toluene	A	B	B	A	A	A	A
Trichloroacetic acid	A	A	A	A	B	A	A
Trichloroethane	A		B		A	A	
Trichloroethylene	A			A			
Triethylamine			C		A	A	A
Water	A	A	A	A	A	A	A
Water (distilled)	A	A	A	A	A	A	A
Xylene	A			A			

The chemical resistance of PEEK at high temperature

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

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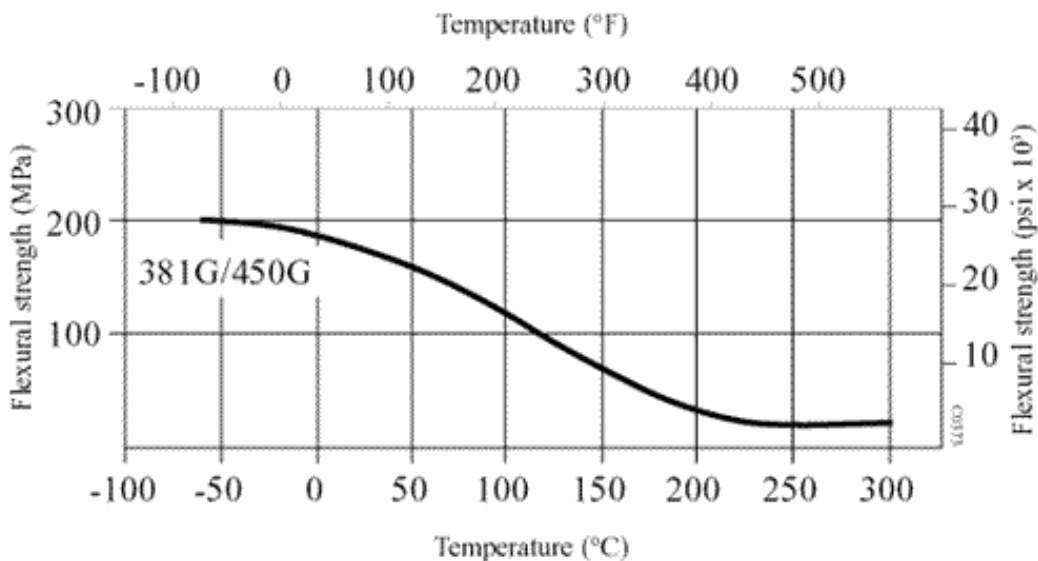
Accessories/miscellaneous

CUSTOMER SUPPORT

Flexural Properties of PEEK

The relationship between flexural strength ("pressure stability") and temperature is shown in the figure below. PEEK 381G and 450G, which we use for our PEEK parts and capillaries, have an exceptionally high strength which is maintained over a wide temperature range.

The burst pressure and the maximum pressure figures we refer to in our tables are obtained at room temperature. Be aware that elevated temperatures reduce the flexural strength of PEEK. Using PEEK at a temperature of about 130°C reduces the stability to approximately half of the stability at room temperature. At 200°C the burst pressure is reduced to about 1/10 of the standard burst pressure. The flexural strength of PEEK does not change at temperatures below the freezing point and on down to -50°C.



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Conversion

General Conversion Factors

Inches to mm:	Inches x 25.4 = mm
Feet to Meter:	Feet x 0.3048 = Meter
Meter 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

Dimension Conversions

mm	Inches	mm	Inches	Inches	mm
0.064	0.0025"	3.00	0.118"	1/32"	0.79
0.13	0.005"	4.00	0.157"	1/16"	1.59
0.17	0.007"	4.60	0.181"	3/32"	2.38
0.25	0.010"	6.00	0.236"	1/8"	3.17
0.50	0.020"	6.35	0.250"	1/4"	6.35
0.75	0.030"	6.40	0.252"	5/16"	7.94
1.00	0.039"	7.00	0.276"	1/2"	12.70
1.50	0.059"	10.00	0.394"	1"	25.40
2.00	0.079"	12.70	0.500"	1ft	304.8

Pressure Conversions

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
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	145.0	1000	1
20	290.1	2000	2
30	435.1	3000	3
40	580.1	4000	4
50	725.2	5000	5
60	870.2	6000	6
70	1015.2	7000	7
80	1160.3	8000	8
90	1305.3	9000	9
100	1450.3	10000	10
200	2900.7	20000	20
300	4351.0	30000	30
400	5801.3	40000	40
500	7251.6	50000	50
600	8702.0	60000	60
700	10152.3	70000	70
800	11602.6	80000	80
900	13052.9	90000	90
1000	14503.3	100000	100

Temperature Conversions

°C	°F	°C	°F	°C	°F
-40	-40	135	275	310	590
-35	-31	140	284	315	599
-30	-22	145	293	320	608
-25	-13	150	302	325	617
-20	-4	155	311	330	626
-15	5	160	320	335	635
-10	14	165	329	340	644
-5	23	170	338	345	653
0	32	175	347	350	662
5	41	180	356	375	707
10	50	185	365	400	752
15	59	190	374	425	797
20	68	195	383	450	842
25	77	200	392	475	887
30	86	205	401	500	932
35	95	210	410	525	977
40	104	215	419	550	1022
45	113	220	428	575	1067
50	122	225	437	600	1112
55	131	230	446	625	1157
60	140	235	455	650	1202
65	149	240	464	675	1247
70	158	245	473	700	1292
75	167	250	482	725	1337
80	176	255	491	750	1382
85	185	260	500	775	1427
90	194	265	509	800	1472
95	203	270	518	825	1517
100	212	275	527	850	1562
105	221	280	536	875	1607
110	230	285	545	900	1652
115	239	290	554	925	1697
120	248	295	563	950	1742
125	257	300	572	975	1787
130	266	305	581	1000	1832

Length Conversions

mm	Inches	mm	Inches	Inches	mm
0.064	0.0025"	3.00	0.118"	1/32"	0.79
0.13	0.005"	4.00	0.157"	1/16"	1.59
0.17	0.007"	4.60	0.181"	3/32"	2.38
0.25	0.010"	6.00	0.236"	1/8"	3.17
0.50	0.020"	6.35	0.250"	1/4"	6.35
0.75	0.030"	6.40	0.252"	5/16"	7.94
1.00	0.039"	7.00	0.276"	1/2"	12.70
1.50	0.059"	10.00	0.394"	1"	25.40
2.00	0.079"	12.70	0.500"		

Volume Chart

ID/mm	ID/inch	μl/cm	μl/inch	ID/mm	ID	μl/cm	μl/inch
0.050	.002"	0.02	0.05	1.00	.040"	7.85	20.59
0.064	.0025"	0.03	0.08	1.40	.055"	15.39	38.93
0.075	.003"	0.04	0.12	1.52	.060"	18.15	46.33
0.10	.004"	0.08	0.21	1.59	.062"	19.86	49.47
0.13	.005"	0.13	0.32	1.65	.065"	21.38	54.38
0.17	.0067"	0.23	0.58	1.70	.067"	22.70	57.78
0.18	.007"	0.25	0.63	1.78	.070"	24.88	63.06
0.25	.010"	0.49	1.29	2.00	.079"	31.42	80.32
0.38	.015"	1.13	2.90	2.10	.083"	34.64	88.66
0.50	.020"	1.96	5.15	2.16	.085"	36.64	92.99
0.75	.030"	4.42	11.58	2.40	.094"	45.24	113.72

This chart is only a guideline. Because of ID tolerances for our tubing (+/-0.025mm (.001") for premium grade tubing and +/- 0.050 mm (.002") for standard tubing) volumes have to be measured to get an exact result.

Frit Volume

Frit volumes are theoretical and are calculated by multiplying overall frit volume times the porosity proportion. Stated frit porosities are only nominal and do

not reflect the maximum pore size of a frit. The below chart will help to choose the right frit for your application.

SS and Titanium Frits

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

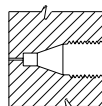
Standard Threads

Place fitting on the fitting detail below to identify the thread size.

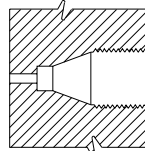
6-40
(for 1/32" OD tubing)



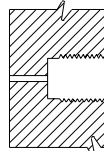
10-32
(for 1/16" OD tubing)



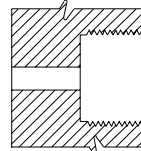
5/16"-24
(for 1/8" OD tubing)



1/4"-28
(for 1/16" and 1/8" OD tubing)



1/2"-20
(for 1/4" OD tubing)



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CUSTOMER SUPPORT

Physical Data about the PEEK and Other Polymers that We Use

PTFE = Polytetrafluor ethylene

FEP = Fluorinated ethylene propylene

PFA = Perfluoralkoxy

ETFE = Ethylenetetra fluoroethylene

PVDF = Polyvinylidene fluoride

PEEK = Polyether ether ketone

Specification	ASTM Method	PTFE	FEP	PFA	ETFE	PVDF	PEEK
Tensile Strength kp/cm ²	D638	220	210	280	450	400	970 (ISO R257)
Elongation %	D638	350	300	300	200	50	150 (ISO R257)
Flexural modulus kp/cm ²	D790	6800	6800	6800	14000	17500	41.000 (ISO R178)
Hardness	D785	D55	D55	D55	D75	D78	D126
Melting point °C		+327	+279	+305	+270	+180	+340
Max service temp °C		+260	+200	+260	+150	+130	+240
Low temp °C		-200	-200	-200	-200	-20	-100
Non flammability		Exc.	Exc.	Exc.	Very good	Very good	Exc.
Water absorbtion 20°C, %		< 0.01	< 0.01	< 0.01	< 0.01	< 0.3	< 0.5
Weather resistance		Exc.	Exc.	Exc.	Exc.	Very good	Exc.
Density g/cm ³	D792	2.1	2.1	2.1	1.7	1.8	1.3 (ISO 250)
Dielectric constant 100 Hz, 1 kHz, 1 MHz	D150	2.1	2.1	2.1	2.6	7.7	3.2 (50HZ – 100 MHz)
Dissipation factor (106Hz)	D150	0.0002	0.0007	0.0002	0.005	0.018	0.003 (ISO 112)
Resistance against organic solvents		Exc.	Exc.	Exc.	Very good	Good	Very good

Resistance against acids and alkalies		Exc.	Exc.	Exc.	Very good	Good	Poor with acids Good with alkalines
Flexibility		Good	Good	Good	Good	Fair	Good
Radiation resistance, rad		105	106	106	108	108	109

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Properties of Metals

Select a material to jump to specific discussions. Select a material to jump to specific discussions.

[Stainless steel, Type 316](#)

[Stainless steel, Type 303](#)

[Electroformed nickel](#)

[Titanium](#)

Stainless steel, Type 316

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

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

Stainless steel, Type 303

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

[TOP ▲](#)

Electroformed nickel (EFNI)

We electroplate pure nickel over a diamond drawn mandrel in a continuous process, then carefully separate and remove the mandrel from the tubing. The result is an extremely inert and smooth (1-2 microinch finish) interior surface. It is widely used for transfer lines, since it minimizes the potential for carryover or cross contamination often found with mill drawn Nickel 200, due to its rough interior surface. Unlike glass or silica-lined stainless, EFNI can easily accept tight bends and cutting without heating, and does not release damaging glass fragments or silica particles. Electroformed nickel has more in common with fused silica than drawn nickel tubing in terms of surface inertness and smoothness.

Titanium

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

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

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Properties of Polymers

Select a material to jump to specific discussions.

[CTFE](#)[EPDM](#)[ETFE](#)[FEP](#)[FFKM \(Perfluorinated rubber\)](#)[PEEK](#)[PFA](#)[PPS](#)[PTFE](#)[Polyacetal](#)[Polyamide](#)[Polyethylene](#)[Polypropylene](#)[PVDF](#)

CTFE

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

EPDM

Ethylene Propylene Diene Monomer. Ethylene-propylene synthetic rubbers offer excellent resistance to heat, oxidation, ozone, and weather aging 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, alkalies, phosphate 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.

TOP ▲

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.

TOP ▲

FFKM (Perfluorinated rubber)

FFKM is a Perfluoroelastomer, the class of materials that includes 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 and up to 343°C in intermittent service.

TOP ▲

PEEK

Considered relatively inert and biocompatible, poly-etheretherketone 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.

TOP ▲

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.

For [Cheminert fittings](#) and [Valco ferrules](#),

TOP ▲

PPS

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

For [Cheminert valve](#) stators.

TOP ▲

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.

For [Valco ferrules](#), and [tubing](#).

TOP ▲

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° to +90°C. It is not suitable for use with acids, alkalis, and oxidizing agents, and has limited resistance to dichloromethane and methyl ethyl ketone.

TOP ▲

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.

TOP ▲

Polyethylene

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

TOP ▲

Polypropylene

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

PVDF

PVDF, 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®.



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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.

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Backflush

The use of valving to reverse the flow through a column in order to "backflush" or purge heavier components from the column. See application demonstrating backflush.

Biocompatibility

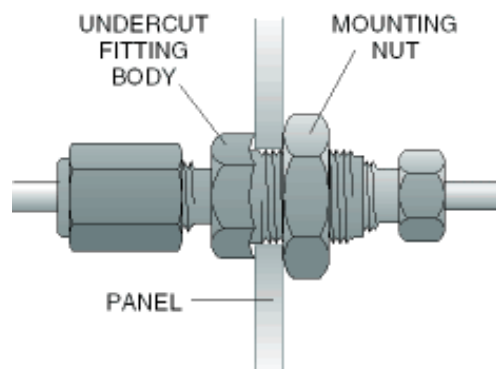
Defines the materials used in a system (i.e. fittings, tubing, and valves) that do not change the bioactivity of the biological substances that come into contact with the surface of these materials. (Note that in chromatographic systems, the tubing and column contribute over 99% of the surface area and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

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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.

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.

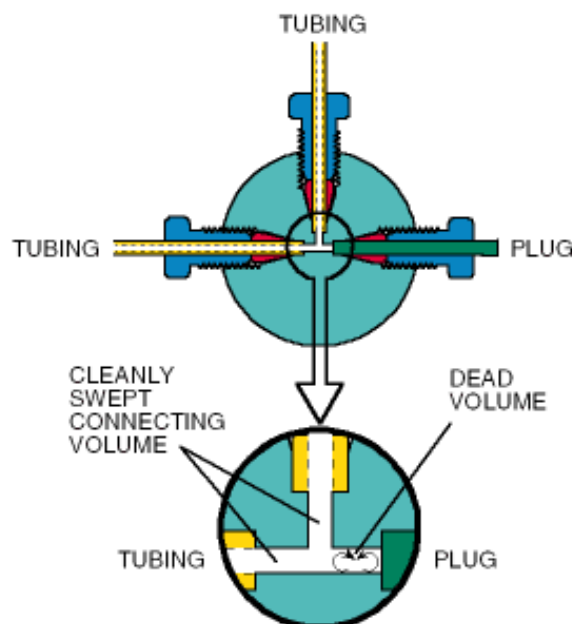
Cross

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

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Dead volume

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



Detail

See *Fitting detail*

Distribution fitting

A generic term for tees, crosses, and manifolds, used to provide multiple access points to "distribute" a gas or liquid through a system. CAUTION! Using a distribution fitting in reverse to coalesce multiple streams may create dead volume. Special manifolds are available for this application.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Female Nut

A type of compression fitting in which the nut has female threads.

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.

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.

Fitting detail

comprise the male part of the fitting, the fitting detail is the female part. It includes the threads for the nut, the tapered ferrule seat, and the pilot.

Flanged Nut

A type of nut 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 Nut

Similar in application to the flanged nut, 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 fitting details, it is usually interchangeable with flanged nut.

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.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

ID

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.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Male Nut

A type of compression fitting in which the nut has 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.

A B C D E F G H I J K L M >N O P Q R S T U V W X Y Z

NPT

National Pipe Thread; a standardized tapered pipe fitting. See *pipe thread*.

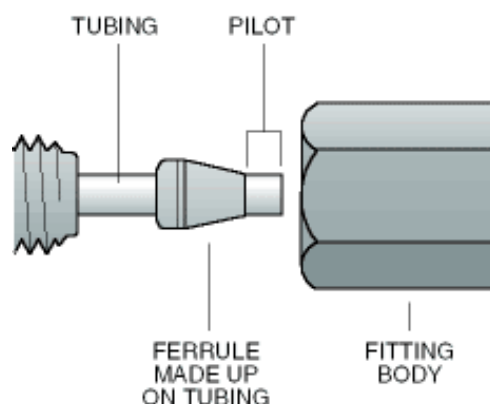
Nut

into the fitting detail, it pushes the ferrule forward into the tapered ferrule seat, causing it to make up on the tube.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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*.



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 interchange ability of components without the risk of leaks or dead volume.

Pipe thread

The external or internal threads of a fitting designed to effect a metal-to-metal seal on the conical thread faces. This type of fitting does not "bottom out" in the detail. Typically used with Teflon tape or other compound to lubricate the threads; however, since the diffusion rate of air components through the Teflon tape is considerable, pipe fittings should not be used in systems where leakage rates are critical.

Port

The connection, orifice, seal, or septum, etc. through which sample may be added (injected) or withdrawn.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Reducing ferrule

A ferrule which allows a smaller tube to be used in a fitting detail designed for a larger tube. Caution should be taken if standard reducing ferrules (RF) without integral pilots are used, since dead volume may be created in the fitting pilot depth.

Reducing union

A fitting which joins two tubes of different ODs. The bore of the fitting should

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Union

A fitting for connecting two pieces of tubing of the same OD, or different OD's. (See also *reducing union*)

Female union: a type of compression fitting in which the fitting body has female threads. Also referred to as an internal union.

Male union: a type of compression fitting in which the fitting body has male threads. Also referred to as an external union.

Unswep 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.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Wetted surfaces

The surfaces which are contacted by the sample stream.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Y

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".

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

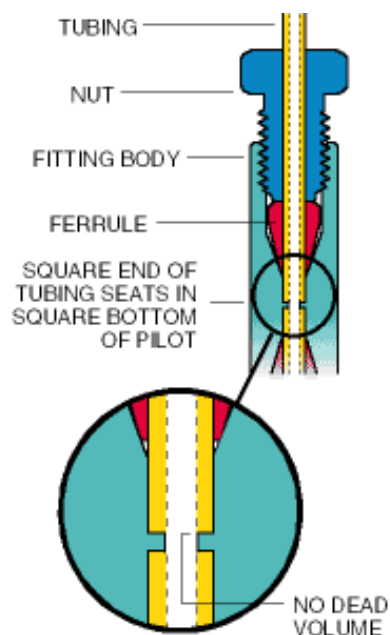
ZDV

Abbreviation for zero dead volume.

Zero dead volume (ZDV)

Describes a connection which does not add volume to the system beyond what an

extension of tubing would in its place.



Zero volume

While often used interchangeably with zero dead volume, it ideally describes a fitting design in which there is no internal volume, such as a through-type union designed to butt-fit two pieces of tubing.

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CUSTOMER SUPPORT

Backpressure Regulators

- Improve baseline stability by preventing bubble formation in the flow cell
- Adjustable backpressure between 0 - 105 bar (1500 psi) without disconnecting
- Biocompatible
- Low dead volume



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. Our backpressure regulator provides a quick and convenient way to improve the stability of detector baseline by providing a constant backpressure on the flow cell, which stops the release of dissolved gases from the mobile phase. A spring-loaded FFKM (Perfluorinated rubber) 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 the regulator from the system.

Connections are made with fingertight fittings for 1/16" tubing. Because of the unique design, the backpressure regulator has only 0.6 μ L internal volume. Installed between two detectors in a multidetector system, or between a detector and fraction collector system, or between a detector and fraction collector, it will not affect the peak shape. Typically, 90% or more of a given component's efficiency will be retained upon passing through the regulator. And the fluid path is completely biocompatible!

Backpressure Regulators

Tolerances: ± 0.05 mm (.002")

Description	Product No.
Variable between 0 - 7 bar (0 - 100 psi)	JR-39021
Variable between 7 - 20 bar (100 - 300 psi)	JR-39022
Variable between 20 - 40 bar (300 - 600 psi)	JR-39023

Variable between 40 - 105 bar (600 - 1500
psi)

JR-39024

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CUSTOMER SUPPORT

VICI Mininert® Valves for Vials

- Leak-tight closure with syringe access
- Ideal for containing volatile liquids, reference materials, and standards
- Fits threaded and crimp-top vials
- Replaceable septum



VICI Mininert valves for vials are the ideal closures for glass vials in which reference materials, calibration standards, or other volatile liquids are stored. With its unique design, the liquid only comes in touch with inert parts. Operation is extremely simple – push the green button, insert the needle through the septum to take a sample, withdraw the needle, and push the red button.

The screw-cap Mininert is available in 13, 15, 18, 20, and 24 mm cap sizes. The crimp-top valve for 13 mm ID glassware slides into the neck of the vial and features a threaded flange which is turned to provide a leak tight fit.

Special note: Mininert valves have been used as high as 8 bar (120 psi) without leakage, but this is *NOT* a recommendation for pressurizing glass containers to these levels. Such pressurizing of glass containers can be extremely dangerous.

Mininert Valves for Vials

Pressure rating: < 8 bar (120 psi); temperature rating: 40°C (105°F). After use at high temperature, the valve may leak slightly when cooled to room temperature.

Description	Qty/ pkg	Product No.
Valve for 13 mm screw cap vial	12	PS-614158
Valve for 15 mm screw cap vial	12	PS-614160
Valve for 18 mm screw cap vial	12	PS-614161
Valve for 20 mm screw cap vial	12	PS-614170
Valve for 24 mm screw cap vial	12	PS-614163
Valve for 13 mm crimp-top vial	12	PS-614250
Replacement silicone septa	50	PS-644350

Septum installation tool

1

PS-644850



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VICI JOUR - High Pressure Fittings

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CUSTOMER SUPPORT

Tools

Some standard tools and some unique ones – all offered to make the chromatographer's job a little easier.

ValvTool

File

Open-end wrenches

Tweezer

Ferrule removal kit

Hex key set

Drill set



ValvTool

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

The new ValvTool is a great timesaver, providing easy access to many hard-to-reach areas. The unique design with its slotted socket allows you to tighten nuts where an interfering loop or capillary might otherwise make it difficult. The ValvTool is the ideal for Rheodyne® and Valco valves and fittings as well as for most of the HPLC and PEEK fittings on the market with 1/4" and 5/16" heads.



Description	Product No.
ValvTool	JR-800

File

Standard fine-tooth file.

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



Wrenches

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



Description	Product No.
For 1/4" and 5/16" nuts	JR-804
For 3/8" and 7/16" nuts	JR-805

Tweezer

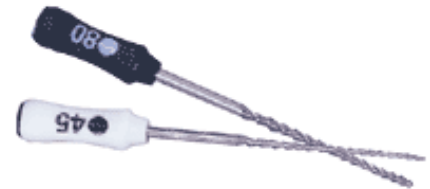
Handy for picking up small fittings and other parts.



Description	Product No.
Tweezer tool	JR-806

Ferrule Removal Kit

Designed to remove polymeric ferrules which are stuck in fitting details, the kit includes two sizes for different sized ferrules.



Description	Product No.
Ferrule removal kit	JR-FRK1

Hex Key Set

This handy tool provides a wrench to fit any socket head screw on any VICI valve or actuator. Includes 0.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", and 5/32".



Description	Product No.
Hex key set	JR-HKS

Drill Set

This set of small drills with a pin vise is useful for enlarging the ID of fused silica adapters, and can also come in handy when fused silica tubing breaks off in an adapter. It contains 20 drills, ranging in size from 0.34 mm to 1 mm (0.0135" to 0.039").



Description	Product No.
Drill set and pin vise	JR-PV

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VICI JOUR - Sample Loops

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CUSTOMER SUPPORT

PEEK Sample Loops for Valco Valves

- Fit all Valco W and UW Type valves with 1/16" fittings
- Wide range of volumes available
- Biocompatible – made from premium grade* PEEK tubing

VICI Jour sample loops are made from premium grade PEEK tubing and supplied complete with PEEK fittings. PEEK is a mechanically strong, chemically inert polymer ideal for HPLC applications, particularly those 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. Since VICI Jour PEEK sample loops contain no metals or other extractable compounds, no foreign materials will be introduced into the system. To further prevent any possibility of tubing contamination, the tubing caps are made of softener-free PE.

*Premium grade tubing has a tighter ID tolerance, minimizing the tolerance of the loop volume.



PEEK Sample Loops for Valco Valves

Tolerances: ± 0.025 mm (.001")

Volume	Pressure rating*	Product No.
5 μ L	400 bar (5800 psi)	JR-SLV-75-5
10 μ L	400 bar (5800 psi)	JR-SLV-75-10

20 µL	400 bar (5800 psi)	JR-SLV-75-20
50 µL	400 bar (5800 psi)	JR-SLV-75-50
100 µL	400 bar (5800 psi)	JR-SLV-75-100
250 µL	240 bar (3500 psi)	JR-SLV-75-250
500 µL	240 bar (3500 psi)	JR-SLV-75-500
1 mL	240 bar (3500 psi)	JR-SLV-75-1000

*Recommended maximum working pressure at room temperature

Other dimensions available on request. Please contact your local distributor or VICI directly.

Spare Parts

Description	Qty/pkg	Product No.
PEEK hex head nut, long, 10-32, 1/16"	5	JR-5510-5
PEEK single ferrule, 1/16"	5	JR-5005-5

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VICI JOUR - Sample Loops

VICI JOUR PRODUCTS

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- Stainless steel
- Polymeric

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CUSTOMER SUPPORT

Stainless Steel Sample Loops for Valco Valves

- Fit all Valco W and UW Type valves with 1/16" fittings
- Wide range of volumes available
- Supplied with SS nuts and ferrules for reliable connections

VICI Jour stainless steel sample loops are made of premium grade* SS316 tubing. The tubing is cut using an electrolytic cutting process which leaves no burrs, then cleaned with ultrasound and high pressure steam to remove contaminants, dried, and capped with softener-free caps to avoid recontamination.

We offer **nuts in three lengths** to facilitate wrench access on valves. For frequently-replaced loops, we recommend the extra long nut – particularly when space is restricted.

*Premium grade tubing has a tighter ID tolerance, minimizing the tolerance of the loop volume.



SS Sample Loops for Valco Valves

Tolerances: ± 0.025 mm (.001")

Pressure rating: < 350 bar (5000 psi)

Volume	Product No.
5 μ L	JR-SLV-76-5
10 μ L	JR-SLV-76-10
20 μ L	JR-SLV-76-20
50 μ L	JR-SLV-76-50

100 µL	JR-SLV-76-100
250 µL	JR-SLV-76-250
500 µL	JR-SLV-76-500
1 mL	JR-SLV-76-1000

Other dimensions available on request. Please contact your local distributor or VICI directly.

Spare Parts

Description	Qty/pkg	Product No.
SS nut, 10-32, 1/16"	5	JR-ZN1-5
SS ferrule, 1/16"	5	JR-ZF1S6-5

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VICI JOUR - High Pressure Fittings

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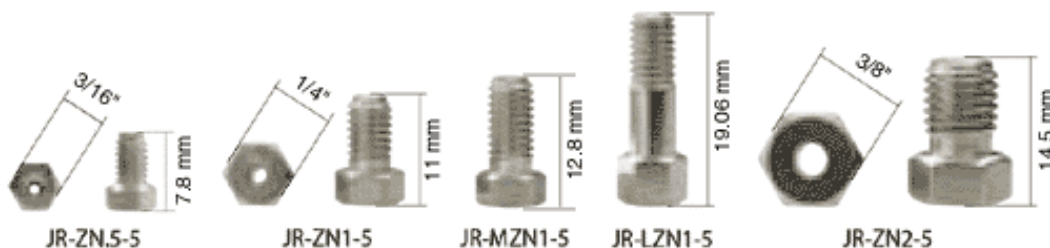
CUSTOMER SUPPORT

Valco SS Nuts and Ferrules

- Excellent fit to Valco fitting details
- Different lengths available
- For 1/32", 1/16", and 1/8" 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, creating more space for easier wrench access.

Nuts are SS303; ferrules are SS316.



Further Reference

[Stainless steel tubing](#)

[ValvTool](#)

[High pressure nanovolume fittings](#)

[High pressure polymeric fittings](#)

Valco SS Nuts and Ferrules

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

Tubing ID	Thread	Length	Qty/ pkg	Product No.
Nuts				
1/32"	6-40	—	5	JR-ZN.5-5
1/16"	10-32	Standard	5	JR-ZN1-5
		Medium	5	JR-MZN1-5
		Long	5	JR-LZN1-5

1/8"	5/16"-24	—	5	JR-ZN2-5
Ferrules				
1/32"	—	—	5	JR-ZF.5S6-5
1/16"	—	—	5	JR-ZF1S6-5
1/8"	—	—	5	JR-ZF2S6-5

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VICI JOUR - Tubing for Chromatography

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CUSTOMER SUPPORT

Premium Grade Stainless Steel Tubing

- Premium grade SS316 – seamless
- Variety of sizes for HPLC and GC applications
- Smooth internal surface
- Soft annealed OD for easy ferrule connections

Tolerances: OD: ± 0.05 mm (.002"); ID: ± 0.025 mm (.001")

Pressure rating:

1/16" OD tubing: min 365 bar (5300 psi)

1/8" OD tubing: min 315 bar (4600 psi)



OD	ID (mm)	Qty/pkg	Product No.
1/32"	0.13	3 m	JR-TSS.505M3
		10 m	JR-TSS.505M10
	0.18	3 m	JR-TSS.507M3
		10 m	JR-TSS.507M10
	0.25	3 m	JR-TSS.510M3
		10 m	JR-TSS.510M10
	0.50	3 m	JR-TSS.520M3
		10 m	JR-TSS.520M10
1/16"	0.13	3 m	JR-TSS105M3
		10 m	JR-TSS105M10
	0.25	3 m	JR-TSS110M3
		10 m	JR-TSS110M10
	0.38	3 m	JR-TSS115M3
		10 m	JR-TSS115M10

	0.50	3 m	JR-TSS120M3
		10 m	JR-TSS120M10
	0.75	3 m	JR-TSS130M3
		10 m	JR-TSS130M10
	1.00	3 m	JR-TSS140M3
		10 m	JR-TSS140M10
1/8"	0.75	3 m	JR-TSS230M3
		10 m	JR-TSS230M10
	1.00	3 m	JR-TSS240M3
		10 m	JR-TSS240M10
	1.52	3 m	JR-TSS260M3
		10 m	JR-TSS260M10
	1.78	3 m	JR-TSS267M3
		10 m	JR-TSS267M10
	2.16	3 m	JR-TSS285M3
		10 m	JR-TSS285M10

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ValvTool

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

The new ValvTool is a great timesaver, providing easy access to many hard-to-reach areas. The unique design with its slotted wrench allows you to tighten nuts where an interfering loop or capillary might otherwise make it difficult. The ValvTool is the ideal for Rheodyne® and Valco valves and fittings as well as for most of the HPLC and PEEK fittings on the market with 1/4" and 5/16" heads.



CUSTOMER SUPPORT

Description	Product No.
ValvTool	JR-800

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CUSTOMER SUPPORT

PEEK Sample Loops for Cheminert Valves

- Fit all Cheminert C1, C2, C2V, and C3 valves
- Wide range of volumes available
- Biocompatible – made from premium grade* PEEK tubing

VICI Jour sample loops are made from premium grade PEEK tubing and supplied complete with PEEK fittings. PEEK is a mechanically strong, chemically inert polymer ideal for HPLC applications, particularly those 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. Since VICI Jour PEEK sample loops contain no metals or other extractable compounds, no foreign materials will be introduced into the system. To further prevent any possibility of tubing contamination, the tubing caps are made of softener-free PE.

*Premium grade tubing has a tighter ID tolerance, minimizing the tolerance of the loop volume.



PEEK Sample Loops for Cheminert Valves

Tolerances: ± 0.025 mm (.001")

Volume	Pressure rating*	Product No.
5 µL	400 bar (5800 psi)	JR-SLC-85-5

10 µL	400 bar (5800 psi)	JR-SLC-85-10
20 µL	400 bar (5800 psi)	JR-SLC-85-20
50 µL	400 bar (5800 psi)	JR-SLC-85-50
100 µL	400 bar (5800 psi)	JR-SLC-85-100
250 µL	240 bar (3500 psi)	JR-SLC-85-250
500 µL	240 bar (3500 psi)	JR-SLC-85-500
1 mL	240 bar (3500 psi)	JR-SLC-85-1000

*Recommended maximum working pressure at room temperature

Other dimensions available on request. Please contact your local distributor or VICI directly.

Spare Parts

Description	Qty/ pkg	Product No.
PEEK hex head nut, long, 10-32, 1/16"	5	JR-5510-5
PEEK single ferrule, 1/16"	5	JR-5005-5

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CUSTOMER SUPPORT

Stainless Steel Sample Loops for Cheminert Valves

- Fit all Cheminert C1, C2, C2V, and C3 valves
- Wide range of volumes available
- Supplied with SS nuts and ferrules for reliable connections

VICI Jour stainless steel sample loops are made of premium grade* SS316 tubing. The tubing is cut using an electrolytic cutting process which leaves no burrs, then cleaned with ultrasound and high pressure steam to remove contaminants, dried, and capped with softener-free caps to avoid recontamination.

We offer **nuts in three lengths** to facilitate wrench access on valves. For frequently-replaced loops, we recommend the extra long nut – particularly when space is restricted.

*Premium grade tubing has a tighter ID tolerance, minimizing the tolerance of the loop volume.



SS Sample Loops for Valco Valves

Tolerances: ± 0.025 mm (.001")

Pressure rating: < 350 bar (5000 psi)

Volume	Product No.
5 μ L	JR-SLC-86-5
10 μ L	JR-SLC-86-10
20 μ L	JR-SLC-86-20
50 μ L	JR-SLC-86-50
100 μ L	JR-SLC-86-100
250 μ L	JR-SLC-86-250

500 µL	JR-SLC-86-500
1 mL	JR-SLC-86-1000

Other dimensions available on request. Please contact your local distributor or VICI directly.

Spare Parts

Description	Qty/ pkg	Product No.
SS nut, 10-32, 1/16"	5	JR-ZN1-5
SS ferrule, 1/16"	5	JR-ZF1S6-5

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VICI JOUR - Sample Loops

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

Filters & mobile phase filters

Mobile phase handling systems

Frits

PEEK columns & guard columns

Sample loops

Accessories/miscellaneous

CUSTOMER SUPPORT

PEEK Sample Loops for Rheodyne® Valves

- Fit all Rheodyne metal and metal-free valves
- Wide range of volumes available
- Biocompatible – made from premium grade* PEEK tubing

VICI Jour sample loops are made from premium grade PEEK tubing and supplied complete with PEEK fittings. PEEK is a mechanically strong, chemically inert polymer ideal for HPLC applications, particularly those 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. Since VICI Jour PEEK sample loops contain no metals or other extractable compounds, no foreign materials will be introduced into the system. To further prevent any possibility of tubing contamination, the tubing caps are made of softener-free PE.

*Premium grade tubing has a tighter ID tolerance, minimizing the tolerance of the loop volume.



PEEK Loops for Rheodyne Valves

Tolerances: ± 0.025 mm (.001")

Volume	Pressure rating*	Product No.
1 μ L	435 bar (6300 psi)	JR-SLR-2190

2 µL	420 bar (6100 psi)	JR-SLR-2191
3 µL	420 bar (6100 psi)	JR-SLR-2192
4 µL	420 bar (6100 psi)	JR-SLR-2193
5 µL	400 bar (5800 psi)	JR-SLR-2194
10 µL	400 bar (5800 psi)	JR-SLR-2196
20 µL	386 bar (5600 psi)	JR-SLR-2195
30 µL	386 bar (5600 psi)	JR-SLR-2200
40 µL	386 bar (5600 psi)	JR-SLR-2201
50 µL	350 bar (4500 psi)	JR-SLR-2202
100 µL	350 bar (4500 psi)	JR-SLR-2204
200 µL	240 bar (3500 psi)	JR-SLR-2206
250 µL	240 bar (3500 psi)	JR-SLR-2207
500 µL	240 bar (3500 psi)	JR-SLR-2210
1 mL	240 bar (3500 psi)	JR-SLR-2222

*Recommended maximum working pressure at room temperature

Other dimensions available on request. Please contact your local distributor or VICI directly.

Spare Parts

Description	Qty/ pkg	Product No.
-------------	-------------	----------------

PEEK hex head nut, long, 10-32, 1/16"	5	JR-5510-5
PEEK single ferrule, 1/16"	5	JR-5005-5

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VICI JOUR - Sample Loops

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
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Low pressure fittings

Filters & mobile phase filters

Mobile phase handling systems

Frits

PEEK columns & guard columns

Sample loops

Accessories/miscellaneous

CUSTOMER SUPPORT

Stainless Steel Sample Loops for Rheodyne Valves

- Fit all Rheodyne valves
- Special loops for Model 7725
- Wide range of volumes available
- Supplied with Rheodyne-type SS nuts and ferrules for reliable connections



VICI Jour stainless steel sample loops are made of premium grade* SS316 tubing.

The tubing is cut using an electrolytic cutting process which leaves no burrs, then cleaned with ultrasound and high pressure steam to remove contaminants, dried, and capped with softener-free caps to avoid recontamination.

We offer **nuts in three lengths** to facilitate wrench access on valves. For frequently-replaced loops, we recommend the extra long nut – particularly when space is restricted.

*Premium grade tubing has a tighter ID tolerance, minimizing the tolerance of the loop volume.

SS Sample Loops for Rheodyne Valves

Tolerances: ± 0.025 mm (.001")

Pressure rating: < 350 bar (5000 psi)

Volume	for Model 7725	for other models
5 μ L	JR-SLR-111-77	JR-SLR-111
10 μ L	JR-SLR-112-77	JR-SLR-112
20 μ L	JR-SLR-113-77	JR-SLR-113
50 μ L	JR-SLR-114-77	JR-SLR-114
100 μ L	JR-SLR-115-77	JR-SLR-115
250 μ L	JR-SLR-116-77	JR-SLR-116
500 μ L	JR-SLR-117-77	JR-SLR-117

1 mL

JR-SLR-118-77

JR-SLR-118

Other dimensions available on request. Please contact your local distributor or VICI directly.

Spare Parts

Description	Qty/ pkg	Product No
Long head SS nut for Rheodyne Model 7725	5	JR-57-5
X-long SS nut, Rheodyne type	5	JR-58-5
1/16" SS ferrule	5	JR-59-5
1/16" SS ferrule, 2-step Rheodyne type	5	JR-60-5

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VICI Jour - PEEK Columns and Guard Columns

VICI JOUR PRODUCTS

[Tubing for chromatography](#)

[High pressure fittings](#)

- [Nanovolume](#)
- [Stainless steel](#)
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[Low pressure fittings](#)

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[Mobile phase handling systems](#)

[Frits](#)

[PEEK columns & guard columns](#)

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[Accessories/miscellaneous](#)

PEEK Columns – 2.1 mm ID

- Biocompatible
- For high pressure applications (210 bar/3000 psi)
- Packing devices available

This column is designed for narrow-bore applications, or those with a limited amount of sample available for analysis. Because 2.1 mm ID columns operate at 1/5 of the flow rate of their 4.6 mm counterparts, a sample mass injected on a 2.1 mm column will produce five times the detector signal of the same amount injected on a 4.6 mm column. Said another way, 20% of the sample volume will give the same signal. Only PEEK and PAT contact the fluid stream.



PEEK Columns - 2.1 mm ID

Tolerances: ± 0.05 mm (.002")

Length (mm)	Product No.
30	JR-65001
50	JR-65002
100	JR-65003
150	JR-65005
250	JR-65006

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VICI Jour - PEEK Columns and Guard Columns

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

Filters & mobile phase filters

Mobile phase handling systems

Frits

PEEK columns & guard columns

Sample loops

Accessories/miscellaneous

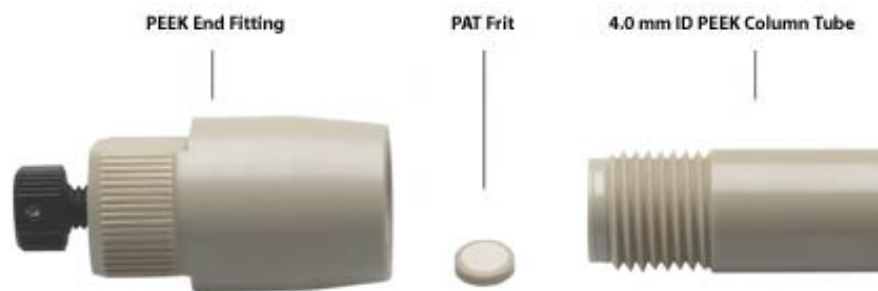
CUSTOMER SUPPORT

PEEK Columns – 4.0 mm ID

- Biocompatible
- For high pressure applications (350 bar/5000 psi continuous*)
- 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. With our PEEK columns, only PEEK and PAT contact the fluid stream.

*Pressure can go to 560 bar (8000 psi) during packing



PEEK Columns - 4.0 mm ID

Tolerances: ± 0.05 mm (.002")

Length (mm)	Product No.
50	JR-68181
100	JR-68182
125	JR-68183
150	JR-68184
250	JR-68185
300	JR-68186



VICI Jour - PEEK Columns and Guard Columns

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

Filters & mobile phase filters

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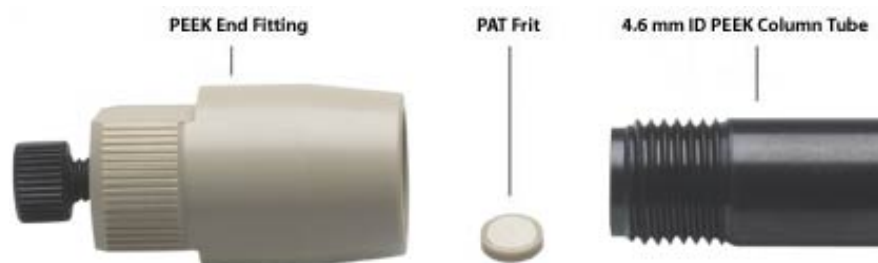
CUSTOMER SUPPORT

PEEK Columns – 4.6 mm ID

- Biocompatible
- For high pressure applications (350 bar/5000 psi continuous*)
- 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. With our PEEK columns, only PEEK and PAT contact the fluid stream.

*Pressure can go to 560 bar (8000 psi) during packing



PEEK Columns - 4.6 mm ID

Tolerances: ± 0.05 mm (.002")

Length (mm)	Product No.
50	JR-66175
100	JR-66176
125	JR-66180
150	JR-66177
250	JR-66178
300	JR-66179



VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

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Mobile phase handling systems

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Sample loops

Accessories/miscellaneous

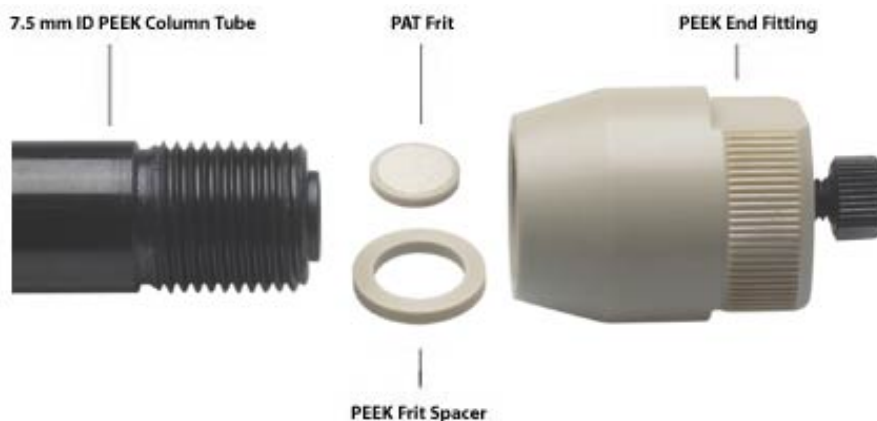
CUSTOMER SUPPORT

VICI Jour - PEEK Columns and Guard Columns

PEEK Columns – 7.5 mm ID

- Ideal for semi-prep biochromatography
- Rated at 350 bar/5000 psi
- Packing devices available

Low protein binding ensures high recovery and accurate quantification. The basic column design, shown in the photo below, consists of a length of threaded PEEK tubing and two PEEK end fittings, with the packed bed held in place by two PAT frits. Connections are made through PEEK inlet and outlet fittings which accept 1/16" OD tubing and standard fingertight fittings.



PEEK Columns - 7.5 mm ID

Tolerances: ± 0.05 mm (.002")

Length (mm)	Product No.
50	JR-67202
75	JR-67222
100	JR-67204
150	JR-67206
250	JR-67208
300	JR-67220



VICI Jour - PEEK Columns and Guard Columns

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

Filters & mobile phase filters

Mobile phase handling systems

Frits

PEEK columns & guard columns

Sample loops

Accessories/miscellaneous

CUSTOMER SUPPORT

PEEK Columns – Packing Devices and Spare Parts

Our Packing Kits are "ready-to-use" tools to pack our PEEK columns. Every kit consists of the needed slurry reservoir, packing adapter, packing seals, etc.

Description	Column ID	Product No.
Packing kit	2.1 mm	JR-67-250-2
	4.0 mm	JR-67-250-4
	4.6 mm	JR-67-250-4
	7.5 mm	JR-67-600
PEEK end fitting:	2.1 mm	JR-062
	4.0 mm	JR-66140
	4.6 mm	JR-66140
	7.5 mm	JR-67140
5 µm PAT frit (PEEK-encased)	2.1 mm	JR-9000-0477
	4.0 mm	JR-68152
	4.6 mm	JR-68152
	7.5 mm	JR-67152
PEEK frit spacer	7.5 mm	JR-67190
PEEK packing adapter	2.1 mm	JR-67140-1A
	4.0 mm	JR-67140-2B
	4.6 mm	JR-67140-2B
	7.5 mm	JR-67140-3A
Replacement packing seal	2.1 mm	JR-65011
	4.0 mm	JR-66158
	4.6 mm	JR-66158



VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
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Low pressure fittings

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CUSTOMER SUPPORT

VICI Jour - PEEK Columns and Guard Columns

In-Line Biocompatible Guard Column

- Biocompatible
- Rated to 350 bar (5000 psi)
- Easy to fill – packing device 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 PAT contact the mobile phase and sample, so the system is ideal for use with proteins or other biopolymers that may be contaminated or absorbed by metal surfaces. VICI Jour guard columns can be easily dry packed or slurry packed, and can be changed in minutes without the use of tools.



The packing kit consists of a slurry reservoir, packing adapter, packing seals, etc. – everything needed to pack the guard column.

In Line PEEK Guard Column

Description	Product No.
Guard cartridge, complete with one cartridge	JR-68252
Extra guard cartridge, complete with 2 5 µm PAT frits	JR-68242
Replacement 5 µm PAT frit for guard cartridge	JR-6145-6188
Packing seal	JR-9
Packing kit	JR-27305



VICI Jour - PEEK Columns and Guard Columns

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

Filters & mobile phase filters

Mobile phase handling systems

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PEEK columns & guard columns

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Accessories/miscellaneous

CUSTOMER SUPPORT

Column Coupler – One-Piece, Fingertight

- Zero dead volume connections
- Self-adjusts to fit all column designs
- Biocompatible PEEK construction
- Four bore sizes

The unique feature of the VICI Jour column coupler is that it adjusts to fit all 10-32 fitting types. No matter what the fitting type and pilot length – Valco®, Waters®, Upchurch®, Rheodyne®, etc., the coupler adapts to bottom out in the pilot automatically, consequently creating only small void volumes. The column coupler is fingertight to 350 bar (5000 psi).



One-Piece Fingertight Column Coupler

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



VICI Jour - PEEK Columns and Guard Columns

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

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Low pressure fittings

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Accessories/miscellaneous

Column End Plugs

- Seals and protects analytical columns
- One size fits all
- With wrench flats

These nylon column end plugs have a fingertight design, but also have a 5/16" wrench flat in case the plug should ever become stuck. One size fits all columns with 10-32 threads. The long design and the threading down to the ferrule ensure a safe closure of valuable columns.



CUSTOMER SUPPORT

Column End Plugs

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

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VICI JOUR - Frits

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

Filters & mobile phase filters

Mobile phase handling systems

Frits

PEEK columns & guard columns

Sample loops

Accessories/miscellaneous

CUSTOMER SUPPORT

PAT Frits

- **PAT** – PEEK Alloyed with Teflon®
- Superior chemical resistance
- Excellent mechanical strength

PAT, a porous material for frits and filters in HPLC, stands for PEEK Alloyed with Teflon®. PAT is made by compressing PEEK and Teflon® particles under rigidly controlled conditions to form porous sheets. PAT frits are suitable for use with all HPLC and IC mobile phases, including strong buffers and chloride salts which corrode common stainless steel frits.



PAT frits may be used with any HPLC column or filter, but they are particularly well suited for separations involving proteins, peptides, nucleic acids, or other samples of biological origin. PAT frits are also ideal for IC systems, where metal frits may interact with ionic samples or release transition metals that will deactivate ion exchange columns.

Compared with other porous polymer frits (Polyethylene, Polypropylene, PTFE), PAT frits exhibit superior chemical resistance, and have a superior mechanical strength derived from the thermally-bonded structure of the PEEK - Teflon® alloy. This strength allows very thin PAT frits to be used without support rings, and they can easily be pressed into column ends.

In addition to standard PAT frits, we also supply PEEK-encased PAT frits.

Note

Stated frit porosities are only nominal, and do not reflect the maximum pore size of a frit. Check the [frit selection chart](#) for help in choosing the right frit for your application.

Standard PAT Frits

Tolerances: ± 0.05 mm (.002")

Pressure rating: < 350 bar (< 5000 psi)

Porosity

Diameter

Thickness

Volume*

Qty/
pkg

Product No.

5 µm	1.59 mm (0.062")	0.78 mm (0.031")	0.54 µl	5	JR-6145-3062-5
	3.17 mm (0.125")	0.78 mm (.031")	2.18 µl	5	JR-6145-3125-5
	4.77 mm (0.188")	1.59 mm (.062")	9.87 µl	5	JR-6145-6188-5
	12.70 mm (0.500")	0.78 mm (.031")	34.91 µl	5	JR-6145-3500-5
10 µm	6.35 mm (0.250")	0.78 mm (0.031")	8.73 µl	5	JR-6146-3250-5
	12.70 mm (0.500")	0.78 mm (.031")	34.91 µl	5	JR-6145-3500-5

*Frit volumes are theoretical and are calculated by multiplying overall frit volume times the porosity proportion. PAT frits have a porosity proportion of 35%.

PAT Frits - PEEK-Encased

Tolerances: ± 0.05 mm (.002")

Pressure rating: < 350 bar (< 5000 psi)

All sold 5 to a package

Porosity	Ring OD	Frit OD	Thickness	Volume*	Product No.
5 µm	5.08 mm (0.2")	2.59 mm (0.102")	1.59 mm (0.062")	2.91 µl	JR-9000-0477-5
	6.35 mm (0.25")	4.77 mm (0.187")	1.59 mm (0.062")	9.77 µl	JR-68152-5
	9.52 mm (0.375")	7.92 mm (0.312")	1.59 mm (0.062")	27.19 µl	JR-67152-5
10 µm	6.35 mm (0.25")	4.77 mm (0.187")	1.59 mm (0.062")	9.77 µl	JR-9000-0460-5

*Frit volumes are theoretical and are calculated by multiplying overall frit volume times the porosity proportion. PAT frits have a porosity proportion of 35%.

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VICI JOUR - Frits

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

Filters & mobile phase filters

Mobile phase handling systems

Frits

PEEK columns & guard columns

Sample loops

Accessories/miscellaneous

CUSTOMER SUPPORT

Frit Selection Chart

Internal frit volumes are theoretical and 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 reflect the maximum pore size of a frit. The chart below will help you in selecting the right frit for your application.

SS and Titanium Frits

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

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VICI JOUR - Frits

VICI JOUR PRODUCTS

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- Nanovolume
- Stainless steel
- Polymeric

[Low pressure fittings](#)[Filters & mobile phase filters](#)[Mobile phase handling systems](#)[Frits](#)[PEEK columns & guard columns](#)[Sample loops](#)[Accessories/miscellaneous](#)

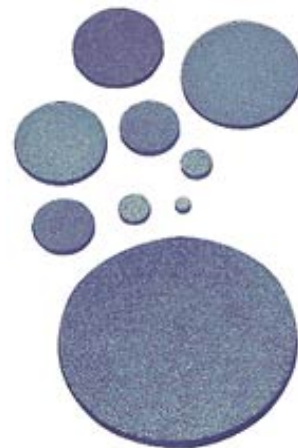
CUSTOMER SUPPORT

Stainless Steel Frits - Unidense Type

- Unexcelled reproducibility and precision
- SS316L - extra low carbon content

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.

VICI stainless steel frits are manufactured of SS316L material, which has extra low carbon content. The sintering process used results in a strong bonding of the sinter metal particles. Depending upon the grade of powder used, the porosity of the frit can be precisely tuned.



Standard frits are without chamfers. Chamfered frits are available on request.

Note

Stated frit porosities are only nominal, and do not reflect the maximum pore size of a frit. Check the [frit selection chart](#) for help in choosing the right frit for your application.

SS Frits - Unidense Type

Tolerances: OD < 5 mm: ± 0.05 mm (.002"); OD 5 - 12.5 mm: ± 0.08 mm (.003"); OD 12.5-25.4 mm: ± 0.20 mm (.008")

Diameter	Thickness	Porosity	Volume	Qty/ pkg	Product No.
1/16" (1.59 mm)	0.76 mm (0.030")	0.5 μ m	0.39 μ l	5	JR-.5FR1-5
		1 μ m	0.45 μ l	5	JR-1FR1-5
		2 μ m	0.53 μ l	5	JR-2FR1-5
		10 μ m	0.60 μ l	5	JR-10FR1-5
1/8" (3.18 mm)	1.02 mm (0.040")	0.5 μ m	2.09 μ l	5	JR-.5FR2-5
		1 μ m	2.41 μ l	5	JR-1FR2-5
		2 μ m	2.81 μ l	5	JR-2FR2-5
		10 μ m	3.22 μ l	5	JR-10FR2-5

1/4" (6.35 mm)	1.02 mm (0.040")	0.5 µm	8.37 µl	5	JR-.5FR4-5
		2 µm	11.26 µl	5	JR-2FR4-5
		10 µm	12.87 µl	5	JR-10FR4-5
3/8" (9.53 mm)	1.02 mm (0.040")	0.5 µm	18.82 µl	5	JR-.5FR6-5
		2 µm	25.34 µl	5	JR-2FR6-5
		10 µm	28.96 µl	5	JR-10FR6-5
1/2" (12.70 mm)	1.02 mm (0.040")	0.5 µm	33.46 µl	5	JR-.5FR8-5
		2 µm	45.05 µl	5	JR-2FR8-5
		10 µm	51.48 µl	5	JR-10FR8-5
1" (25.40 mm)	1.52 mm (0.060")	2 µm	270.28 µl	5	JR-2FR1K-5
		10 µm	308.89 µl	5	JR-10FR1K-5

Other dimensions and porosities are available on request. Minimum order 100 pieces.

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VICI JOUR - Frits

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

Filters & mobile phase filters

Mobile phase handling systems

Frits

PEEK columns & guard columns

Sample loops

Accessories/miscellaneous

CUSTOMER SUPPORT

Stainless Steel Frits – PEEK-Encased

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

VICI Jour PEEK encased frits with 1/4" ring OD are intended for HPLC columns with ID's of 3.2, 3.9, and 4.6 mm. By surrounding the frit with a PEEK ring, the diameter of actual porous surface is reduced to match 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 otherwise accessible poorly swept areas.



Note

Stated frit porosities are only nominal, and do not reflect the maximum pore size of a frit. Check the [frit selection chart](#) for help in choosing the right frit for your application.

SS Frits – PEEK-Encased

Tolerances: ± 0.05 mm (.002")

All sold 5 to a package

Ring OD	Frit OD	Thickness	Porosity	Volume	Product No.
3 mm (0.118")	0.97 mm (0.038")	.70 mm (.028")	0.5 μ m	0.14 μ l	JR-1110-05P-5
		.70 mm (.028")	2 μ m	0.18 μ l	JR-1110-2P-5
		.70 mm (.028")	5 μ m	0.2 μ l	JR-1110-5P-5
	1.96 mm (0.077")	.70 mm (.028")	0.5 μ m	0.56 μ l	JR-1111-05P-5
		.70 mm (.028")	2 μ m	0.75 μ l	JR-1111-2P-5
		.70 mm (.028")	5 μ m	0.81 μ l	JR-1111-5P-5
1/4" (6.35 mm)	2.00 mm (0.078")	1.59 mm (.062")	0.5 μ m	1.26 μ l	JR-1104-05P-5

		1.59 mm (.062")	2 µm	1.7 µl	JR-1104-2P-5
	3.20 mm (0.125")	1.59 mm (.062")	0.5 µm	3.24 µl	JR-1102-05P-5
		1.59 mm (.062")	2 µm	4.36 µl	JR-1102-2P-5
	3.90 mm (0.153")	1.59 mm (.062")	0.5 µm	4.86 µl	JR-1101-05P-5
		1.59 mm (.062")	2 µm	6.54 µl	JR-1101-2P-5
	4.60 mm (0.181")	0.80 mm (.032")	0.5 µm	3.51 µl	JR-1103-05P-5
		0.80 mm (.032")	2 µm	4.72 µl	JR-1103-2P-5
		1.59 mm (.062")	0.5 µm	6.8 µl	JR-1100-05P-5
		1.59 mm (.062")	2 µm	9.15 µl	JR-1100-2P-5

Other dimensions and porosities are available on request. Minimum order 100 pieces.

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VICI JOUR - Frits

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

Filters & mobile phase filters

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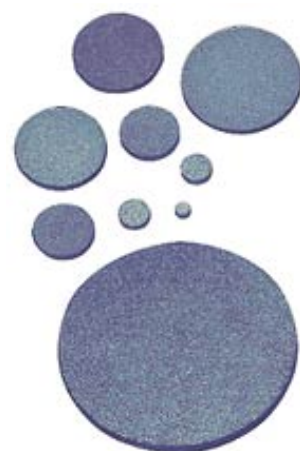
Accessories/miscellaneous

CUSTOMER SUPPORT

Titanium Frits - Unidense Type

- Biocompatible - recommended for protein analysis
- Higher corrosion resistance
- Various pore sizes and dimensions

Titanium is preferred over stainless steel for applications related to the analysis of particularly sensitive substances in general and large biomolecules in particular. Evidently proteins have a tendency to adsorb on the stainless steel (iron) frit, reducing recovery and maybe even decomposing. Titanium also offers higher corrosion resistance and can be used with solvents containing halides.



Standard frits are without chamfers. Chamfered frits are available on request.

Note

Stated frit porosities are only nominal, and do not reflect the maximum pore size of a frit. Check the [frit selection chart](#) for help in choosing the right frit for your application.

Titanium Frits - Unidense Type

Tolerances: OD < 5 mm: ± 0.05 mm (.002"); OD 5 - 12.5 mm: ± 0.08 mm (.003"); OD 12.5-25.4 mm: ± 0.20 mm (.008")

All sold 5 to a package

Diameter	Thickness	Porosity	Volume	Product No.
1/16" (1.59 mm)	1.02 mm (0.040")	2 μ m	0.70 μ l	JR-2FR1TI-5
1/8" (3.18 mm)	1.02 mm (0.040")	2 μ m	2.81 μ l	JR-2FR2TI-5
1/4" (6.35 mm)	1.02 mm (0.040")	2 μ m	11.26 μ l	JR-2FR4TI-5
3/8" (9.53 mm)	1.02 mm (0.040")	2 μ m	25.34 μ l	JR-2FR6TI-5
1/2" (12.70 mm)	1.02 mm (0.040")	2 μ m	45.05 μ l	JR-2FR8TI-5
	1.02 mm (0.040")	10 μ m	51.48 μ l	JR-10FR8TI-5
1" (25.40 mm)	1.02 mm (0.040")	2 μ m	270.28 μ l	JR-2FR1KTI-5

Other dimensions and porosities are available on request. Minimum order 100 pieces.

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VICI JOUR - Frits

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

Filters & mobile phase filters

Mobile phase handling systems

Frits

PEEK columns & guard columns

Sample loops

Accessories/miscellaneous

CUSTOMER SUPPORT

Titanium Frits – PEEK-Encased

- For HPLC columns or in-line filters
- Eliminate poorly swept volume and improves peak symmetry
- Biocompatible - recommended for protein analysis
- 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 1/4" ring OD are intended for HPLC columns with ID's of 3.2 and 4.6 mm. By surrounding the frit with a PEEK ring, the diameter of actual porous surface is reduced to match 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 otherwise accessible poorly-swept areas.

Note

Stated frit porosities are only nominal, and do not reflect the maximum pore size of a frit. Check the [frit selection chart](#) for help in choosing the right frit for your application.

Titanium Frits – PEEK-Encased

Tolerances: ± 0.05 mm (.002")

All sold 5 to a package

Ring OD	Frit OD	Thickness	Porosity	Volume	Product No.
1/4" (6.35 mm)	3.20 mm (0.125")	1.59 mm (.062")	0.5 μ m	.84 μ l	JR-1127-05P-5
		1.59 mm (.062")	2 μ m	1.53 μ l	JR-1127-2P-5
	4.60 mm (0.181")	1.59 mm (.062")	0.5 μ m	1.77 μ l	JR-1125-05P-5
		1.59 mm (.062")	2 μ m	3.20 μ l	JR-1125-2P-5

Other dimensions and porosities are available on request. Minimum order 100 pieces.

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VICI JOUR - Mobile Phase Handling Systems

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

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CUSTOMER SUPPORT

Safety-coated Glass Bottles

- Special design for helium sparging of LC mobile phases
- Safety coating minimizes risk of injury

VICI Jour Safety-Coated Glass Bottles are available in 1 and 2 liter sizes. Schott Duran® glass bottles with GL45 screw threads are coated on the outside with a sturdy polymer layer. The chances of breaking the bottle by dropping it are decreased, and if a bottle should break, the glass fragments are kept inside the polymer coating. The coating will contain the solvent for a short while – long enough for safe disposal – and also protects solvents against UV light up to 385 nm.



Note:

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

Safety-coated Glass Bottles

Pressure rating: 0.8 bar (11.6 psi)

Description	Product No.
1 liter bottle	JR-9000-0005
2 liter bottle	JR-9000-0010

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CUSTOMER SUPPORT

VICI-Cap

- Ideal for helium sparging and delivering mobile phase
- Available with a bottle as a kit

The VICI-Cap is the most economical way to helium sparge and deliver mobile phases. The insert is manufactured from PTFE, with an EPDM O-ring and a polypropylene pouring ring. For different options (e.g. helium sparging), there are 3 ports for tubing insertion – 2 x 1/8" and 1 x 1/16". The tubing ports are made so that you just push the tubing through the hole, or you can use 1/4"-28 fittings for the best connections. A plug is included to close any port not required.



The kits contain all the fittings, plugs, and tubing needed to sparge and deliver LC mobile phases, with the option of a 1 or 2 litre safety-coated bottle as well.

We recommend our [No-Ox tubing](#) to prevent "regassing" of degassed solvents.

Note:

These caps are not suitable for building up a helium atmosphere within the solvent bottle. They should be used only for continuous helium sparging.

VICI-Caps

Description	Product No.
GL45 threads, 1 plug	JR-9000-0001
S40 threads, 1 plug	JR-9000-0006

VICI-Cap Kits

Description	Product No.
Basic kit	JR-9000-0002

Basic kit with 1 L bottle	JR-9000-0003
Basic kit with 2 L bottle	JR-9000-0004

Further Reference

[Safety-coated bottles](#)
[SS filters](#)
[PTFE tubing](#)
[Flangeless PEEK nuts](#)
[EFTE ferrules](#)

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VICI JOUR - Tubing for Chromatography

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CUSTOMER SUPPORT

No-Ox Tubing

- Low permeability prevents "re-gassing"
- Excellent chemical resistance

Most HPLC installations use PTFE tubing for internal low-pressure transfer lines, since PTFE is easy to use and extremely chemically inert. However, PTFE- and PTFE-like polymers have micro pores which allow gases to diffuse freely, to the extent that solvent degassers are often based on that property – gases dissolved in solvents are removed by diffusion when a vacuum is applied on the outside of the tubing. A contrary "re-gassing" effect occurs when degassed solvent passes through PTFE tubing with standard air pressure on the outside – gases diffuse through the PTFE tubing back into the newly (and expensively!) degassed solvent.

To solve this problem, we co-extrude FEP tubing and PVDF tubing to create No-Ox tubing, which is essentially FEP tubing coated on the outside with PVDF tubing. The FEP contributes excellent chemical resistance, while the very tight polymer structure of the PVDF ensures that the degassed solvent will stay degassed until it reaches the HPLC pump.

NOTE: PVDF is not very chemically resistant, but the PVDF layer can easily be stripped from the FEP with a VICI Jour [Clean-Cutter](#) or a razor blade so that only FEP contacts the solvent in the solvent reservoir. A special KEL-F tubing insert (P/N 6141) prevents solvent from contacting the PVDF layer at the tubing end in the valve port. The ferrule fits into the ID of the tubing and seals against the bottom of the port.

1/8" OD No-Ox Tubing

Tolerances: OD and ID: ± 0.05 mm (.002)

Description	Qty/pkg	Product No.
No-Ox tubing, 1/8" x 1.65 mm ID	3 m	JR-T-6130-M3

	10 m	JR-T-6130-M10
No-Ox fitting kit 2 <i>KEL-F</i> inserts 2 <i>PEEK</i> nuts 2 <i>ETFE</i> ferrules	1	JR-6140
Spare parts		
KEL-F insert for No-Ox fitting	10	JR-6141-10
Flangeless 1/4"-28 PPS 1/8" nut	10	JR-55071-10
Adapter, PP, fingertight sleeve, black	10	JR-55083-10
1/8" ETFE ferrule	10	JR-051-10

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CUSTOMER SUPPORT

Clean-Cut Polymer Tubing Cutter

- Cuts PEEK, PTFE, ETFE, and other polymeric tubing
- No distortion of OD or closing of ID
- Safety lock to secure the blade



It is difficult to obtain burr-free perpendicular cuts on polymeric tubing, but right angles and clean cuts are essential in LC to avoid leaks. The Clean-Cut is a tool for the most demanding LC applications, making clean, perpendicular cuts 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 fits in your pocket, and a unique safety locking mechanism secures the blade when not in use.

NOTE: The Clean-Cut tubing cutter is not for sale in Japan. Please see the [guillotine cutter](#) instead.

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

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Guillotine Polymer Tubing Cutter

- Cuts PEEK, PTFE, ETFE, and other polymeric tubing



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

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VICI JOUR - Filters and Mobile Phase Filters

VICI JOUR PRODUCTS

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CUSTOMER SUPPORT

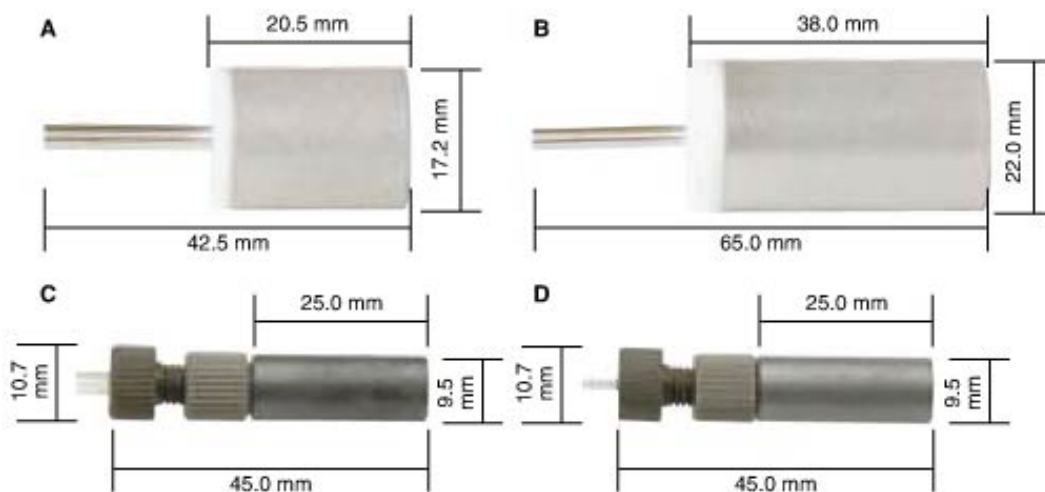
Mobile Phase Filters and Helium Spargers

- Ideal for helium sparging
- Three different porosities
- 1/4"-28 fitting or pipe connector

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

VICI Jour helium spargers (2 μ m 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.

We recommend our [No-Ox tubing](#) to prevent "regassing" of degassed solvents.



No-Met Biocompatible Mobile Phase Filter

Drawing	Porosity	Fitting/Pipe OD	Sugg. Max Flow	Product No.
A	2 μ m	1/8" OD pipe	10 mL/min	JR-3675-2
B	2 μ m	1/8" OD pipe	50 mL/min	JR-3678-2
	25 μ m	1/8" OD pipe	100 mL/min	JR-3678-25

C	2 µm	1/8" ID fitting	8 mL/min	JR-367008-2
	10 µm	1/8" ID fitting	20 mL/min	JR-367008-10
	20 µm	1/8" ID fitting	20 mL/min	JR-367008-20
D	2 µm	1/16" ID fitting	8 mL/min	JR-367016-2
	10 µm	1/16" ID fitting	20 mL/min	JR-367016-10
	20 µm	1/16" ID fitting	20 mL/min	JR-367016-20

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CUSTOMER SUPPORT

PTFE Tubing

- Low and mid pressure applications
- Biocompatible

PTFE tubing (PolyTetraFluoroEthylene) is chemically inert and suitable for lower pressure applications. Typically 1/16" OD tubing holds up to 62 bar (900 psi) and 1/8" up to 35 bar (500 psi).

For easy identification of the ID and to differentiate the transfer lines, PTFE tubing is available in a color-coded version. We also offer black PTFE tubing in a range of IDs for light-sensitive applications for which natural PTFE is too translucent. Such applications include light-sensitive enzymatic reactions, luminescent reactions, connections to the flow cell, and radioactive HPLC.

Product Numbers

Jump to product numbers for:

[Natural PTFE tubing](#)

[Color-coded PTFE tubing](#)

[Black PTFE tubing](#)

Further Reference

[Clean-Cut tubing cutter](#)

PTFE Tubing - Natural

Tolerances:

1/16" OD: $\pm 0.05 \text{ mm}$ (.002"), OD and ID;

1/8" OD: $\pm 0.10 \text{ mm}$ (.004") OD and ID

OD	ID (mm)	bar*	psi*	Qty/pkg	Product No.
1/16"	0.18	62	900	3 m	JR-T-6805-M3
				10 m	JR-T-6805-M10
				25 m	JR-T-6805-M25
	0.25	55	800	3 m	JR-T-4011-M3
				10 m	JR-T-4011-M10

				25 m	JR-T-4011-M25
	0.50	50	700	3 m	JR-T-4183-M3
				10 m	JR-T-4183-M10
				25 m	JR-T-4183-M25
	0.75	37	550	3 m	JR-T-4036-M3
				10 m	JR-T-4036-M10
				25 m	JR-T-4036-M25
	1.00	25	350	3 m	JR-T-6807-M3
				10 m	JR-T-6807-M10
				25 m	JR-T-6807-M25
	1/8"	1.59	35	3 m	JR-T-6800-M3
				10 m	JR-T-6800-M10
				25 m	JR-T-6800-M25
		2.40	18	3 m	JR-T-4037-M3
				10 m	JR-T-4037-M10
				25 m	JR-T-4037-M25
2.00 mm	1.70	10	150	3 m	JR-T-6801-M3
				10 m	JR-T-6801-M10
				25 m	JR-T-6801-M25
4.00 mm	3.00	17	250	per m	JR-T-4039
4.79 mm	3.76	14	200	per m	JR-T-4041
1/4"	4.75	17	250	per m	JR-T-6810

*Recommended maximum permanent working pressure.

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PTFE Tubing – Solid color-coded

Tolerances:

1/16" OD: ± 0.05 mm (.002"), OD and ID;

1/8" OD: ± 0.10 mm (.004") OD and ID

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

*Recommended maximum permanent working pressure.

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PTFE Tubing – Black

Tolerances:

1/16" OD: ± 0.05 mm (.002"), OD and ID;

1/8" OD: ± 0.10 mm (.004") OD and ID

OD	ID (mm)	bar*	psi*	Qty/pkg	Product No.
1/16"	0.25	55	800	3 m	JR-T-6808-M3
				10 m	JR-T-6808-M10
				25 m	JR-T-6808-M25
	0.50	50	700	3 m	JR-T-6811-M3
				10 m	JR-T-6811-M10
				25 m	JR-T-6811-M25

*Recommended maximum permanent working pressure.

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VICI JOUR - Low Pressure Fittings

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

Filters & mobile phase filters

Mobile phase handling systems

Frits

PEEK columns & guard columns

Sample loops

Accessories/miscellaneous

PEEK Color-Coded Flangeless Nuts

- Flange-free – compatible with all 1/4"-28 flat bottom ports
- Excellent chemical resistance
- Available for 1/16" and 1/8" tubing
- Fingertight – no tools required

PEEK flangeless nuts in combination with the inverted ferrule make leak-free seals without a flanging tool or a wrench. The inert ETFE ferrule is the only part besides the tubing which contacts the fluid – the nut itself does not contact the fluid stream. (See illustration) Six colors are available.



1/16" PEEK Color-Coded Flangeless Nuts

Pressure rating: up to 105 bar (1500 psi). Varies with tubing material and ID.

Description	Color	Qty/ pkg	Product No.
PEEK 1/4"-28 flangeless nut	Natural	10	JR-20124-10
	Yellow	10	JR-20125-10
	Red	10	JR-20126-10

	Blue	10	JR-20127-10
	Green	10	JR-20128-10
	Black	10	JR-20129-10
1/16" ETFE ferrule		10	JR-041-10

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1/8" PEEK Color-Coded Flangeless Nuts

Pressure rating: up to 35 bar (500 psi). Varies with tubing material and ID.

Description	Color	Qty/ pkg	Product No.
PEEK 1/4"-28 flangeless nut	Natural	10	JR-20116-10
	Yellow	10	JR-20113-10
	Red	10	JR-20114-10
	Blue	10	JR-20115-10
	Green	10	JR-20112-10
	Black	10	JR-20117-10
1/8" ETFE ferrule		10	JR-051-10

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VICI JOUR - Low Pressure Fittings

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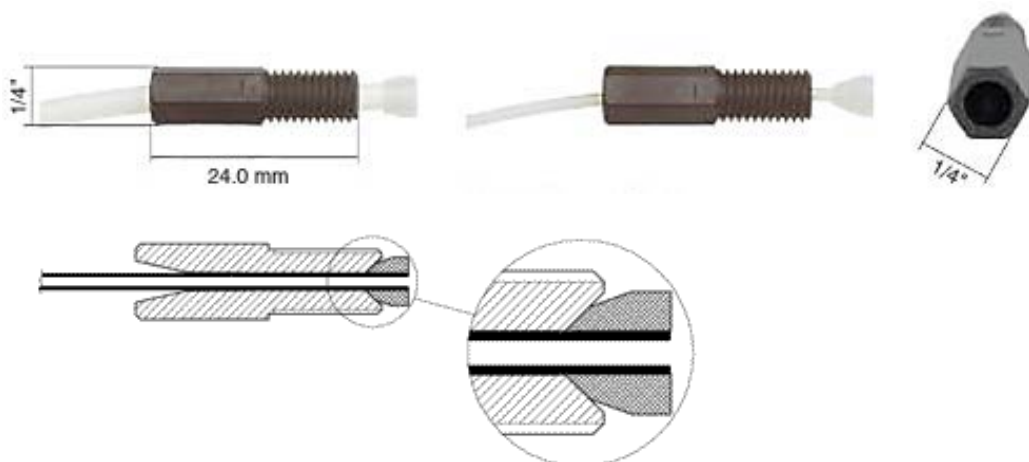
Accessories/miscellaneous

CUSTOMER SUPPORT

PPS Nuts for use with Inverted Ferrules

- Economically priced alternative to PEEK
- Excellent chemical resistance
- For 1/16" or 1/8" tubing, 1/4"-28 threads
- Slim design – fingertight with adapter

The new VICI Jour PPS 1/4"-28 fitting series offers excellent chemical and pressure resistance. The inverted ferrule makes an effective seal without having to make a flange with flanging tool.



[Jump to product numbers](#)

Chemical Resistance

Chemical Class	Resistance
Acids, organic	A
Acids, inorganic	A/C*
Aldehydes	A
Alcohols	A
Bases	A/B
Esters	A

* conc. Halogen acids

A = Suitable

B = Marginal; dependent on application

C = Not recommended

Halogenated org.	A/B
Hydrocarbons	A
Ketones	A

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PPS Nuts and Inverted Ferrules

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

Material: PolyPhenylene Sulfide nut, ETFE ferrule

Description	Qty/ pkg	Product No.
1/16" nut	10	JR-55070-10
1/16" inverted ferrule	10	JR-041-10
1/8" nut	10	JR-55071- 10
1/8" inverted ferrule	10	JR-051-10

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CUSTOMER SUPPORT

Eco-Cap

- Competitively-priced alternative for sparging and delivering mobile phases

The Eco-Cap has an ETFE insert, polyethylene collar, and standard GL45 threads. The three holes for tubing insertion have no threads inside the tubing ports, so tubing can easily be pushed through. A plug is included to close any unused port.



We recommend our [No-Ox tubing](#) to prevent "regassing" of degassed solvents.

Note:

These caps are not suitable for building up a helium atmosphere within the solvent bottle. They should be used only for continuous helium sparging.

Eco-Cap

Description	Product No.
GL45 threads, 1 male luer plug	JR-9000-0007

Further Reference

[Safety-coated bottles](#)

[SS filters](#)

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CUSTOMER SUPPORT

SolviFlex

- Be "mobile" with mobile phase bottles
- Available for GL45 and S40 thread sizes
- Customized versions on request

The 1/8" PFA-inlet line SolviFlex is a flexible telephone cable type which expands and contracts, giving the flexibility to move mobile phase bottles on the bench.

All SolviFlex assemblies consist of a biocompatible 5 µm mobile phase filter and all parts needed to connect it to any 1/4"-28 port. Models are available with caps for bottles with GL45 and Merck® S40 threads. Or send us a cap, and we'll make a customized version.



Note:

Color and design of S40 caps may differ from illustration.

SolviFlex

Description	Product No.
Assembly without cap	JR-6120-50030
Assembly with GL45 cap	JR-6120-50031
Assembly with S40 cap	JR-6120-50032
Assembly customized with cap from customer	JR-6120-50033

Further Reference

[Safety-coated bottles](#)

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CUSTOMER SUPPORT

Check Valve for Helium Sparging Line

- Prevents backflow of liquids
- Fits 1/16" or 1/8" OD tubing

Low pressure check valves are a simple and inexpensive way to prevent backflow from the solvent reservoir into the sparging line. When a helium supply is switched off, helium gas will diffuse through the tubing wall, allowing the solvent to be sucked into the sparging line. A check valve located just outside the bottle protects the gas line components such as regulators and valves from any liquid, and also eliminates cross-contamination of the mobile phase reservoir.



Materials

Body: polypropylene; spring: stainless steel; unions: nylon; adapters: polypropylene; nuts: POM; ferrules: ETFE

Low Pressure Check Valve

Cracking pressure is 0.1 bar (1.5 psi)

Description	Product No.
With fittings for 1/16" tubing	JR-9001-0620
With fittings for 1/8" tubing	JR-9001-0621

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VICI JOUR - Filters and Mobile Phase Filters

VICI JOUR PRODUCTS

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CUSTOMER SUPPORT

Last Drop Mobile Phase Filter

- No loss of mobile phase
- Biocompatible PTFE frits or SS frits
- Three different porosities
- Two connector types



The Last Drop mobile phase filter

utilizes a flat filter element which sits parallel to the bottom of the reservoir. This design allows the filter to draw all but the last 2% of the mobile phase from the reservoir without drawing air into the system. Conventional cylindrical mobile phase filters begin to draw air into the system when as much as 10% of the solvent remains in the reservoir.

The body is constructed of PTFE, with either a 1/4"-28 female fitting (PEEK nut and ETFE ferrule supplied) or a tripod (stepped) tubing connector which accommodates 1.5, 2.2, and 3.5 mm ID tubing. We recommend the metal-free PTFE version for sensitive biochromatography applications where metal surfaces may corrode and contaminate the solvent with ions.

Last Drop Mobile Phase Filters

Frit material	Connector	Porosity	Product No.
PTFE	Tripod	2.5 µm	JR-9000-0520
		5 µm	JR-9000-0521
		10 µm	JR-9000-0522
	Fitting	2.5 µm	JR-9000-0520F
		5 µm	JR-9000-0521F
		10 µm	JR-9000-0522F
SS316	Tripod	2.5 µm	JR-9000-0530
		5 µm	JR-9000-0531

		10 µm	JR-9000-0532
	Fitting	2.5 µm	JR-9000-0530F
		5 µm	JR-9000-0531F
		10 µm	JR-9000-0532F

Spare Parts

Description	Qty/ pkg	Product No.
1/8" flangeless nut, natural PEEK	10	JR-20116-10
1/8" ETFE ferrule	10	JR-051-10
Tripod universal tubing connector, PEEK	1	JR-8000-0485

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VICI JOUR - Filters and Mobile Phase Filters

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

Filters & mobile phase filters

Mobile phase handling systems

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Last Drop Economy Mobile Phase Filter

- Very competitively priced
- Easy to replace, or clean with ultrasound
- Biocompatible PTFE frits or SS frits
- Three different porosities
- Two diameters

We offer these economy mobile phase filters in two sizes, for various bottleneck dimensions. The filter body is made of PTFE, selected for its resistance against virtually all common mobile phases. We recommend the 2 μm porosity for flow rates less than 10 mL/min; for higher flow rates, use the 10 μm filters.

We recommend our 1/8" [PTFE tubing](#) for connecting the filter.



Economy Last Drop Mobile Phase Filters

Frit material	Diameter	Porosity	Product No.
PTFE	19 mm	2.5 μm	JR-4676-2.5TF
		5 μm	JR-4676-5TF
		10 μm	JR-4676-10TF
	22 mm	2.5 μm	JR-4677-2.5TF
		5 μm	JR-4677-5TF
		10 μm	JR-4677-10TF
SS316	19 mm	2 μm	JR-4676-2

		10 µm	JR-4676-10
	22 mm	2 µm	JR-4677-2
		10 µm	JR-4677-10

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VICI JOUR - Filters and Mobile Phase Filters

VICI JOUR PRODUCTS

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- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

Filters & mobile phase filters

Mobile phase handling systems

Frits

PEEK columns & guard columns

Sample loops

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CUSTOMER SUPPORT

Last Drop Filter/Sparger

- Parallel filtering and sparging
- Biocompatible PTFE frits or SS frits
- Three different porosities

The Last Drop filter/sparger combines filtration and sparging in a single unit. The PTFE housing contains a mobile phase filter with either a stainless steel or PTFE filter element. Connect the solvent line to the stepped "tripod" connector, which accommodates 1.5, 2.2, and 3.5 mm ID tubing. A 1/4"-28 fitting connector connects a 1/8" helium line connects to the 10 µm sparger. Both connectors are PEEK.

We recommend our 1/8" [No-Ox tubing](#) to prevent "regassing" of helium degassed solvents.



Last Drop Filter/Spargers

Frit material	Porosity	Product No.
PTFE	2.5 µm	JR-9000-0602
	5 µm	JR-9000-0603
	10 µm	JR-9000-0604
SS316	2.5 µm	JR-9000-0640
	5 µm	JR-9000-0641

10 µm

JR-9000-
0642**Spare Parts**

Description	Qty/ pkg	Product No.
1/8" flangeless nut, natural PEEK	10	JR-20116-10
1/8" ETFE ferrule	10	JR-051-10
Tripod universal tubing connector, PEEK	1	JR-8000- 0485

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No-Met Biocompatible Mobile Phase Filters

- Very competitively priced
- Inert and biocompatible
- Replaceable filters
- Recommended for IC



Stainless steel is not an acceptable material for a growing number of applications involving the separation of labile macro biomolecules. It is of great importance that all of the biological activity of the samples is retained and that the biological specificity remains unchanged. High salt buffer concentrations can corrode stainless steel and the metal ions released from these filters may react with the biomolecules of interest or even contaminate the eluents in ion chromatography.

To meet the needs of these applications, No-Met filters are designed from inert polymeric components which effectively eliminate metal contamination of the fluid path. The body can be either PTFE or polyethylene. Note that since the polyethylene filter is hydrophobic, it may require an initial priming with methanol or acetonitrile.

We recommend our 1/8" [PTFE tubing](#) for connecting all No-Met filters. The economy version, pictured at right below, can be easily slipped over 1/8" OD tubing, with no fitting required.



No-Met Biocompatible Mobile Phase Filter

Description	Product No.
PTFE, 5 µm, 1/8" fitting	JR-32171
Replacement PTFE filter	JR-32172
PE, < 20 µm, 1/8" fitting	JR-32178

Replacement PE filter	JR-32179
Economy PE, 5 µm, 1/8" slip-on	JR-32174

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In-Line Low/Medium Pressure Filter for LC

- Easy to replace
- Compact design
- Fits all 1/4"-28 fitting details
- Three different porosities



These filters are convenient since they can be simply dropped into any 1/4"-28 fitting detail. Therefore, all LP solvent line connectors like [unions](#), [tees](#), [crosses](#), etc. – even our [manual flow selection valves](#) – can be used as the cartridge holder.

The filter is made of a stainless steel screen pressed into an inert cartridge. The inner design of the cartridge ensures the equal distribution of the solvent to the screen.

Dimensions

Tolerance: ± 0.05 mm (.002")

OD: 5.20 mm (fits all 1/4"-20 fitting details)

Thickness: 2.03 mm

Bore: 0.8 mm

Filter surface diameter: 2 mm

No-Met Biocompatible Mobile Phase Filter

Porosity	Qty/ pkg	Product No.
2 μ m	5	JR-CFE-S2-5
10 μ m	5	JR-CFE-S10-5
75 μ m	5	JR-CFE-S75-5

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VICI JOUR - Low Pressure Fittings

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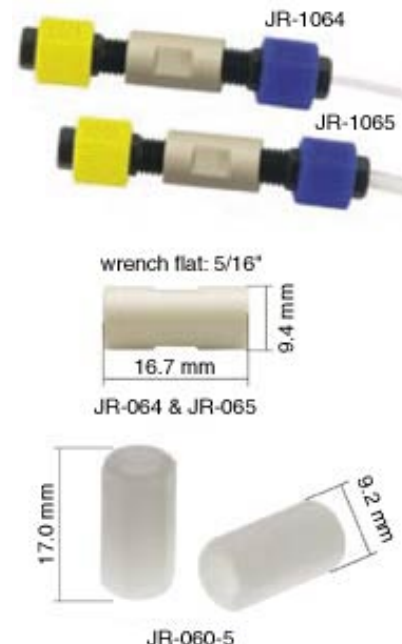
CUSTOMER SUPPORT

Unions

- Easy connection of low pressure solvent lines
- Low dead volume
- Completely inert and biocompatible

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

VICI unions have 1/4"-28 flat bottom ports, so they can be used with collapsible ferrules, inverted ferrules, or flanged tube ends. Complete versions of the 0.50 mm and 0.75 mm bore unions are shipped with PPS flangeless nuts and ETFE ferrules for 1/16" tubing; 1.30 mm versions get PEEK nuts and ETFE ferrules for 1/8" tubing. The reducing union is supplied with polyacetal flangeless nuts, with an ETFE ferrule for the 1/8" connection and a CTFE ferrule for the 1/4" connection.



Jump to product numbers for:

[Unions](#)

[Reducing union](#)

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Low Pressure Unions

Pressure rating: up to 105 bar (1500 psi) for 1/16", 35 bar (500 psi) for 1/8"

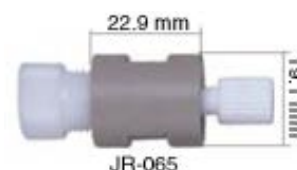
Description		Product No.
Polyimide union, through bore, body only; 1/4"-28, for flanged tubing only, pkg of 5		JR-060-5
0.50 mm bore	PEEK union with fittings	JR-1064

	PEEK union, body only	JR-064
0.75 mm bore	PEEK union with fittings	JR-1068
	PEEK union, body only	JR-068
1.30 mm bore	PEEK union with fittings	JR-1065
	PEEK union, body only	JR-065

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PEEK Reducing Union

Description	Product No.
1/4" to 1/8", 1.5 mm bore, with fittings	JR-CU4LPK



PEEK Union Spare Parts

Description		Qty/pkg	Product No.
Nuts	PPS, flangeless, 1/16", black	10	JR-55070-10
	PPS, flangeless, 1/8", black	10	JR-55071-10
	Polyacetal, flangeless, 1/8", white	10	JR-050WH-10
	Polyacetal, flangeless, 1/4", white	1	JR-CFL-4D
Ferrules	ETFE, 1/16"	10	JR-041-10
	ETFE, 1/8"	10	JR-051-10
	CTFE, 1/4"	1	JR-CFL-CB4KF-S

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Tees, Crosses, and Manifolds

- Completely inert and biocompatible
- Different bore sizes available
- 1/4"-28 ports for 1/16" and 1/8" OD tubing

VICI tees, crosses, and manifolds for low pressure applications are machined from PEEK. The bodies have 1/4"-28 female flat bottom ports which accept any flanged fitting or collapsible or inverted flangeless fitting for 1/8" or 1/16" OD tubing.

Complete versions with 0.50, 0.75, and 0.80 mm bore are supplied with PPS flangeless nuts and ETFE ferrules for 1/16" OD tubing. Complete versions with 1.50 mm bore are supplied with PPS flangeless nuts and ETFE ferrules for 1/8" OD tubing. The fingertight sleeves are polypropylene.



Jump to product numbers for:

[Tees](#)

[Crosses](#)

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[Spare parts](#)

Dimensions

Tees and Crosses

Body diameter: 25.0 mm; thickness: 12.0 mm

Manifolds

5 ports body diameter: 22.2 mm; thickness: 17.1 mm

9 ports body diameter: 22.2 mm; thickness: 28.6 mm

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Low Pressure Tees

Pressure rating: up to 105 bar (1500 psi) for 1/16", 35 bar (500 psi) for 1/8".

Varies with tubing material and ID

Description		Product No.
0.50 mm bore	PEEK tee with 1/16" fittings	JR-6029
	PEEK tee, body only	JR-6034
0.80 mm bore	PEEK tee with 1/16" fittings	JR-6030
	PEEK tee, body only	JR-6032
1.50 mm bore	PEEK tee with 1/8" fittings	JR-6031
	PEEK tee, body only	JR-6033

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Low Pressure Crosses

Pressure rating: up to 105 bar (1500 psi) for 1/16", 35 bar (500 psi) for 1/8".

Varies with tubing material and ID

Description		Product No.
0.50 mm bore	PEEK cross with 1/16" fittings	JR-6039
	PEEK cross, body only	JR-6044
0.80 mm bore	PEEK cross with 1/16" fittings	JR-6040
	PEEK cross, body only	JR-6042
1.50 mm bore	PEEK cross with 1/8" fittings	JR-6041
	PEEK cross, body only	JR-6043

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Low Pressure Manifolds

Pressure rating: up to 105 bar (1500 psi) for 1/16", 35 bar (500 psi) for 1/8".

Varies with tubing material and ID

Description		Product No.
0.75 mm bore	5 port PEEK manifold with 1/16" fittings	JR-C5M1PK
	9 port PEEK manifold with 1/16" fittings	JR-C9M1PK

1.50 mm bore	5 port PEEK manifold with 1/8" fittings	JR-C5M2PK
	9 port PEEK manifold with 1/8" fittings	JR-C9M2PK

Spare Parts

Description		Qty/pkg	Product No.
Nuts	PPS, flangeless 1/4"-28, 1/16"	10	JR-55070-10
	PPS, flangeless 1/4"-28, 1/8"	10	JR-55071-10
Ferrules	ETFE, 1/16"	10	JR-041-10
	ETFE, 1/8"	10	JR-051-10

Also available: [Fingertight adapters in additional colors](#)

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VICI JOUR - Low Pressure Fittings

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

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CUSTOMER SUPPORT

Color-Sleeve Fingertight Adapters

- Available in twelve colors
- Turns our PPS low pressure nut into a fingertight fitting


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

Color-Sleeve Fingertight Adapters

Material: Polypropylene

Color	Qty/ pkg	Product No.
Natural	10	JR-55080-10
White	10	JR-55081-10
Dark grey	10	JR-55082-10
Black	10	JR-55083-10
Lavender	10	JR-55084-10
Red	10	JR-55085-10
Yellow	10	JR-55086-10
Orange	10	JR-55087-10
Brown	10	JR-55088-10



Green	10	JR-55089-10	
Blue	10	JR-55090-10	
Purple	10	JR-55091-10	
2 each	24	JR-5508X-24	
2 blue 2 red 2 green 2 yellow 2 black 2 white	12	JR-5508X-12	

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VICI JOUR - Low Pressure Fittings

VICI JOUR PRODUCTS

Tubing for chromatography

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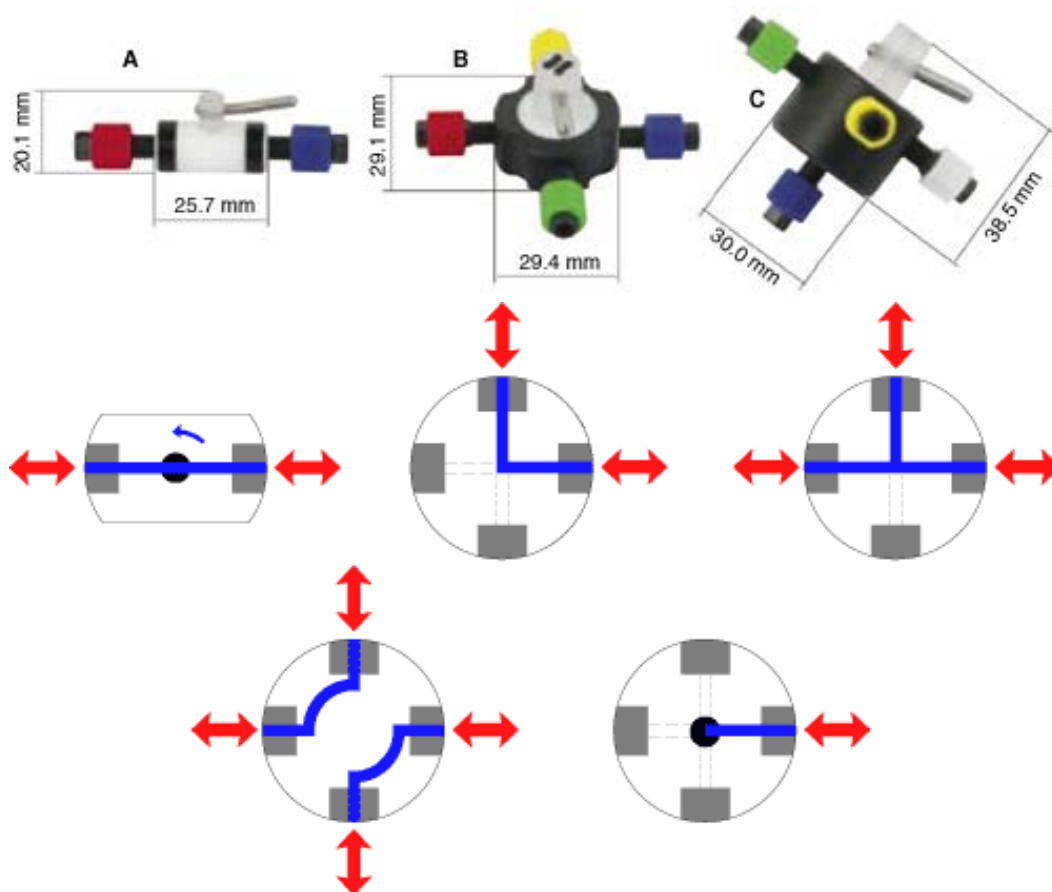
Accessories/miscellaneous

CUSTOMER SUPPORT

Manual Flow Selection Valves

- Completely inert and biocompatible
- Several flow patterns available
- 8 mm bore, for use with 1/16" or 1/8" OD tubing
- Low dead volume
- For pressure up to 35 bar (500 psi)

VICI Jour manual valves are the ideal tools for liquid flow selection. The mountable valves are pre-fitted with the new VICI Jour PPS 1/4"-28 fittings and ETFE ferrules for 1/16" tubing, but the 1/4"-28 female flat bottom ports accept any flanged fitting or collapsible or inverted flangeless fitting for 1/8" or 1/16" OD tubing. Wetted parts are PTFE and CTFE; the body is polyacetal.



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Manual Flow Selection Valves

Pressure rating: < 35 bar (500 psi). Varies with tubing material and ID

No. of ports	Function	Photo	Product No.
2 ports	On/off	A	JR-MSV25
4 ports	L-flow	B	JR-MSV4L
	T-flow		JR-MSV4T
	2 pairs		JR-MSV4P
5 ports	1 inlet/4 outlets	C	JR-MSV5D

Spare Parts

Description		Qty/pkg	Product No.
Nuts	PPS, flangeless 1/4"-28, 1/16"	10	JR-55070-10
	PPS, flangeless 1/4"-28, 1/8"	10	JR-55071-10
Ferrules	ETFE, 1/16"	10	JR-041-10
	ETFE, 1/8"	10	JR-051-10

Also available: [Fingertight adapters in additional colors](#)

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VICI JOUR - Filters and Mobile Phase Filters

VICI JOUR PRODUCTS

Tubing for chromatography

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- Nanovolume
- Stainless steel
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CUSTOMER SUPPORT

PEEK In-Line High Pressure Filter Kit

- 100% biocompatible
- Minimal hold-up volume
- Biocompatible PAT or Ti frits
- Variety of porosities

The VICI Jour in-line filter traps fines and other particulates from samples and mobile phases before they can damage valuable instruments and columns. The PEEK body and PAT (PEEK Alloyed with Teflon) filter elements give complete biocompatibility and chemical resistance. In addition, the design has virtually no hold-up volume, so these filters can be used in analytical applications with virtually no band broadening or loss of efficiency.

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



PEEK In-Line High Pressure Filter Kit

Pressure rating: <350 bar (< 5000 psi)

Frit material	Porosity	Internal volume*	Product No.
PAT (PEEK-encased)	5 μm	12.4 μl	JR-68250
	10 μm	12.4 μl	JR-68251
Ti (PEEK-encased)	0.5 μm	4.4 μl	JR-68247
	2 μm	5.8 μl	JR-68253

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

Spare Frits

Material	Porosity	Frit volume	Qty/ pkg	Product No.
PAT (PEEK-encased)	5 µm	9.77 µl	5	JR-68152-5
	10 µm	9.77 µl	5	JR-9000-0460-5
Ti (PEEK-encased)	0.5 µm	1.77 µl	5	JR-1125-05P-5
	2 µm	3.20 µl	5	JR-1125-2P-5

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Sure-Guard

- Minimized hold-up volume
- Economical enough to be disposable
- Biocompatible PAT or Ti frits
- Choice of porosities

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



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

Sure-Guard

Pressure rating: <350 bar (< 5000 psi)

Frit material	Porosity	Frit volume*	Qty/ pkg	Product No.
SS	0.5 µm	0.45 µl	3	JR-0611-SS05-3
	2 µm	0.61 µl	3	JR-0611-SS2-3
Ti	0.5 µm	0.45 µl	3	JR-0611-TI05-3
	2 µm	0.61 µl	3	JR-0611-TI2-3



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CUSTOMER SUPPORT

SS High Pressure In-Line Filter

- Minimized hold-up volume
- For high pressure applications (up to 350 bar/5000 psi)
- Two different bores, for analytical or semi-prep flow rates
- Variety of porosities



The VICI Jour SS in-line filter has virtually no hold-up volume and can be used in various applications without significant band broadening or loss of efficiency. The 0.25 mm bore versions are intended for analytical use between autosampler/injection valve and column. The 0.75 mm bore versions are suitable for higher flow rates in semi prep systems or for solvent supply from pump to autosampler with minimal dead volume. The female 10-32 threads allow easy connection of 1/16" tubes.

The PEEK-encased SS316 frits are available with porosities of 0.5, 2 or 5 μm . We recommend 2 μm frits for columns with 5 μm or larger particles and 0.5 μm frits for smaller particles.



SS High Pressure In-Line Filter

Pressure rating: <350 bar (< 5000 psi)

Bore	Porosity	Internal volume*	Product No.
0.25 mm	0.5 μm	0.2 μl	JR-68230-05
	2 μm	0.3 μl	JR-68230-2
	5 μm	0.3 μl	JR-68230-5
0.75 mm	0.5 μm	1.7 μl	JR-68231-05

	2 µm	1.9 µl	JR-68231-2
	5 µm	1.9 µl	JR-68231-5

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

Spare Frits

For filter series:	Porosity	Frit volume	Qty/ pkg	Product No.
JR-68230	0.5 µm	0.14 µl	5	JR-1110-05P-5
	2 µm	0.18 µl	5	JR-1110-2P-5
	5 µm	0.20 µl	5	JR-1110-5P-5
JR-68231	0.5 µm	0.56 µl	5	JR-1111-05P-5
	2 µm	0.75 µl	5	JR-1111-2P-5
	5 µm	0.81 µl	5	JR-1111-5P-5

Frit dimensions

Filters with 0.25 mm bore (JR-68230 series)

Ring OD: 3 mm (0.118"); Frit OD: 0.97 mm (0.038");

Thickness: 0.70 mm (0.028")

Filters with 0.75 mm bore (JR-68231 series)

Ring OD: 3 mm (0.118"); Frit OD: 1.96 mm (0.077");

Thickness: 0.70 mm (0.028")

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VICI JOUR - Filters and Mobile Phase Filters

VICI JOUR PRODUCTS

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CUSTOMER SUPPORT

PEEK High Pressure Pre-Column Filter Kit

- 100% biocompatible
- Minimal hold-up volume
- Biocompatible PAT or Ti frits
- Variety of porosities

The VICI Jour pre-column filter kit has a standard 10-32 fitting which fits directly to most column types without introducing additional dead volume. The filter kit protects expensive columns against fines and particles which may otherwise accumulate on the column frit, leading to split peaks and high backpressure.



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

PEEK High Pressure Pre-Column Filter Kit

Pressure rating: <350 bar (< 5000 psi)

Frit material	Porosity	Internal volume*	Product No.
PAT (PEEK-encased)	5 μm	14.4 μl	JR-68260
	10 μm	14.4 μl	JR-68261
Ti (PEEK-encased)	0.5 μm	6.4 μl	JR-68258
	2 μm	7.8 μl	JR-68262

*The internal volume is the hold-up volume between the end of the connecting tube and the filter's 10-32 connection, including the frit volume.

Spare Frits

Material	Porosity	Frit volume	Qty/ pkg	Product No.
PAT (PEEK-encased)	5 μm	9.77 μl	5	JR-68152-5

	10 µm	9.77 µl	5	JR-9000-0460-5
Ti (PEEK-encased)	0.5 µm	1.77 µl	5	JR-1125-05P-5
	2 µm	3.20 µl	5	JR-1125-2P-5

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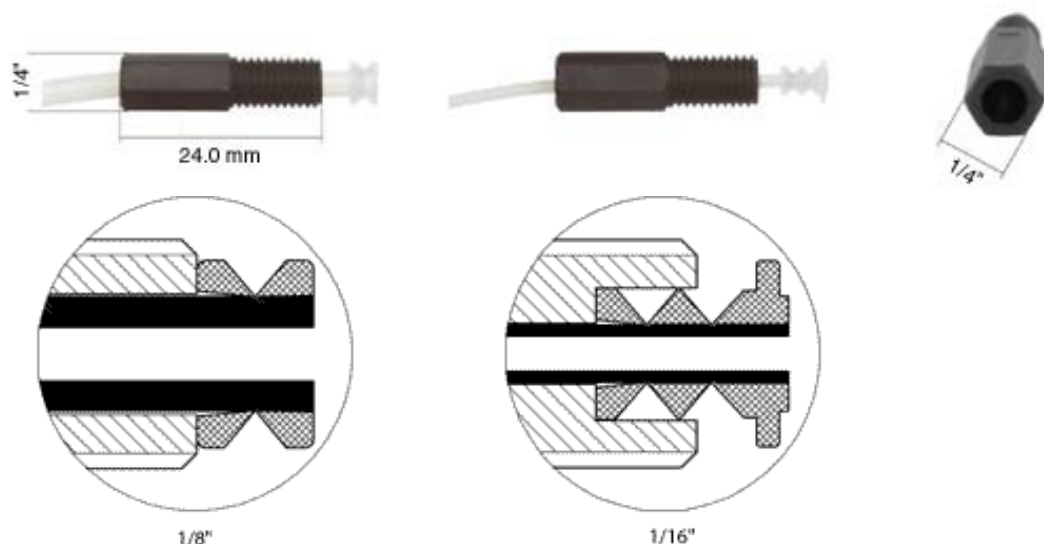
CUSTOMER SUPPORT

PPS Nuts for use with Collapsible Ferrules*

- Economically priced alternative to PEEK
- Excellent chemical resistance
- For 1/16" or 1/8" tubing, 1/4"-28 threads
- Slim design – fingertight with adapter

The new VICI Jour PPS 1/4"-28 fitting series offers excellent chemical and pressure resistance. The collapsible ferrule makes a very effective seal on a narrow area with no distortion of the tubing. No flanging tool is required.

*patent no. 6,575,501



[Jump to product numbers](#)

Chemical Resistance

Chemical Class	Resistance
Acids, organic	A
Acids, inorganic	A/C*
Aldehydes	A
Alcohols	A
Bases	A/B

* conc. Halogen acids

A = Suitable

B = Marginal; dependent on application

C = Not recommended

Esters	A
Halogenated org.	A/B
Hydrocarbons	A
Ketones	A

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PPS Nuts and Collapsible Ferrules

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

Material: PolyPhenylene Sulfide nut, CTFE ferrule

Description	Qty/ pkg	Product No.
1/16" nut	10	JR-55050-10
1/16" collapsible ferrule	10	JR-CFL- CB1KF
1/8" nut	10	JR-55051-10
1/8" collapsible ferrule	10	JR-CFL- CB2KF

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VICI JOUR - Low Pressure Fittings

VICI JOUR PRODUCTS

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[High pressure fittings](#)

- Nanovolume
- Stainless steel
- Polymeric

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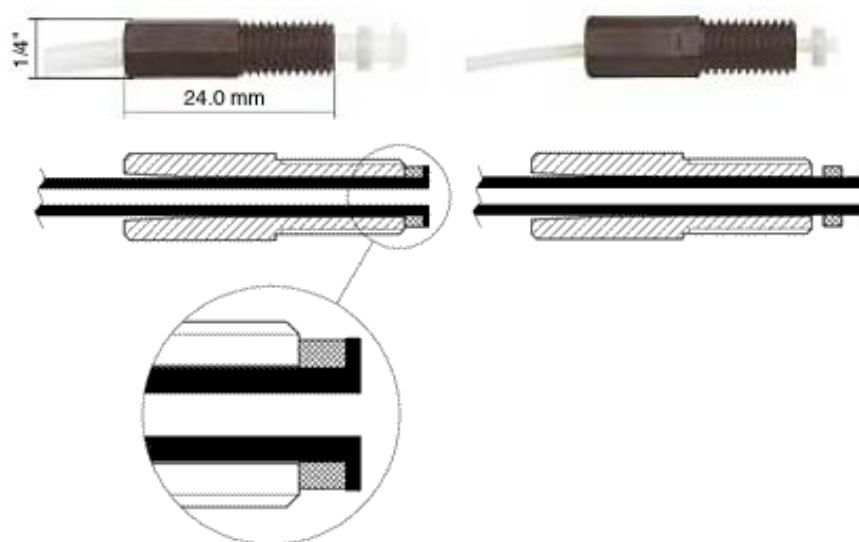
CUSTOMER SUPPORT

PPS Nuts for use with Flange/Washer Connection

- Economically priced alternative to PEEK
- Excellent chemical resistance
- For 1/16" or 1/8" tubing, 1/4"-28 threads
- Slim design – fingertight with adapter

The new VICI Jour PPS 1/4"-28 fitting series offers excellent chemical and pressure resistance. With this type of connection, the solvent contacts only the tubing.

For forming the flange on the tubing, we recommend our [Easy-Flange kit](#).



[Jump to product numbers](#)

Chemical Resistance

Chemical Class	Resistance
Acids, organic	A
Acids, inorganic	A/C*
Aldehydes	A
Alcohols	A
Bases	A/B
Esters	A

* conc. Halogen acids

A = Suitable

B = Marginal; dependent on application

C = Not recommended

Halogenated org.	A/B
Hydrocarbons	A
Ketones	A

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PPS Nuts and PP Washers for Flanged Connections

Pressure rating: up to 30 bar (435 psi). Varies with tubing material and ID

Material: PolyPhenylene Sulfide nut, Polypropylene washer

Description	Qty/ pkg	Product No.
1/16" nut	10	JR-55060-10
1/16" washer	10	JR-201926- 10
1/8" nut	10	JR-55061-10
1/8" washer	10	JR-201928- 10

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VICI JOUR - Tubing for Chromatography

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CUSTOMER SUPPORT

Easy-Flange and Easy-Flange Combi Kits

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

The Easy-Flange flange-rolling tool has been developed for flanging all PTFE and PTFE-like tubes with OD between 1/16" and 1/8" for fittings requiring a flange. The tool forms the flange just by applying a mechanical force and does not require electrical power. The quality of the flange is considerably improved since the flanges are formed without stressing the tubing by heat and because the specially designed negative conical profile of the flange forming part gives a shape ideal for maximum sealing properties. The Easy-Flange Combi Kit is an upgraded version of our standard Easy-Flange Kit, and comes complete with PTFE tubing, PPS nuts, and Polypropylene O-rings.



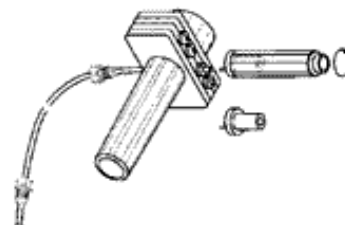
Product Numbers

Jump to product numbers for:

[Basic Easy-Flange kit](#)

[Easy-Flange Combi kit](#)

[Easy-Flange spare parts and options](#)



Further Reference

[PPS flanged fittings](#)

[Polypropylene flanged fittings](#)

[PTFE tubing](#)

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Easy-Flange Kit

Description	Qty	Product No.
Easy-Flange kit in plastic case	1	JR-201540

Includes the parts below:

Flanging disc with 0.5 mm SS pin for PEEK tubing	1	JR-202235
Flanging disc with 0.8 mm polymer pin	1	JR-201541
Flanging disc with 0.8 mm Titanium pin	1	JR-201554
Flanging disc with 1.3 mm polymer pin	1	JR-201536
Flanging disc with 1.3 mm Titanium pin	1	JR-201537
Clean-Cut tubing cutter	1	JR-797
PTFE tubing, 1/16" x 0.75 mm ID x 3 m	1	JR-T-4036-M3

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Easy-Flange Combi Kit

Description	Qty	Product No.
Easy-Flange Combi kit in plastic case	1	JR-201539
<i>Includes the parts below:</i>		
Flanging disc with 0.5 mm SS pin for PEEK tubing	1	JR-202235
Flanging disc with 0.8 mm polymer pin	1	JR-201541
Flanging disc with 0.8 mm Titanium pin	1	JR-201554
Flanging disc with 1.3 mm polymer pin	1	JR-201536
Flanging disc with 1.3 mm Titanium pin	1	JR-201537
Clean-Cut tubing cutter	1	JR-797
PPS flanged 1/4"-28 nut for 1/16" tubing, 10/pkg	1 pkg	JR-55060-10
PP ring for 1/16" flanged fitting, 10/pkg	1 pkg	JR-201926-10
PPS flanged 1/4"-28 nut for 1/8" tubing, 10/pkg	1 pkg	JR-55061-10
PP ring for 1/8" flanged fitting, 10/pkg	1 pkg	JR-201928-10
PP fingertight sleeve adapters, 2 ea color, 24/pkg	1 pkg	JR-5508X-24
PTFE tubing, 1/16" x 0.75 mm ID x 3 m	1	JR-T-4036-M3
PTFE tubing, 1/8" x 1/16" ID x 3 m	1	JR-T-6800-M3

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Easy-Flange Spare Parts and Options

Description	Product No.
Flanging disc with 0.5 mm SS pin for PEEK tubing	JR-202235
Flanging disc with 0.8 mm polymer pin	JR-201541
Flanging disc with 0.8 mm Titanium pin	JR-201554
Flanging disc with 1.0 mm polymer pin	JR-201662
Flanging disc with 1.3 mm polymer pin	JR-201536
Flanging disc with 1.3 mm Titanium pin	JR-201537
Flanging disc with 1.5 mm polymer pin	JR-201663
Clean-Cut tubing cutter	JR-797
Flanging clamp pair	JR-201531

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VICI JOUR - Low Pressure Fittings

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

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CUSTOMER SUPPORT

Polypropylene Color-Coded Flanged Nuts

- For flanged connections
- Compatible with all 1/4"-28 flat bottom ports
- Fiberglass reinforced polypropylene with polypropylene washers
- Available for 1/16" and 1/8" tubing

A number of chromatography systems still require or prefer flanged connections. When the tubing is flanged, the washer never comes in contact with the mobile phase. Six colors are available.

For forming the flange on the tubing, we recommend our [Easy-Flange kit](#).



1/16" Polypropylene Color-Coded Flanged Nuts

Pressure rating: up to 30 bar (435 psi). Varies with tubing material and ID.

Description	Color	Qty/ pkg	Product No.
Polypropylene 1/4"-28 nut	Black	10	JR-201094BK-10
	White	10	JR-201094WH-10
	Blue	10	JR-202122-10
	Green	10	JR-202123-10
	Yellow	10	JR-202124-10
	Red	10	JR-202125-10
Polypropylene 1/4"-28 nut, 1" long	Black	10	JR-202118-10
	White	10	JR-202118-10

Washer for 1/16" flanged fitting	10	JR-201926-10
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1/8" Polypropylene Color-Coded Flanged Nuts

Pressure rating: up to 30 bar (435 psi). Varies with tubing material and ID.

Description	Color	Qty/ pkg	Product No.
Polypropylene 1/4"-28 nut	Black	10	JR-201580BK-10
	White	10	JR-201580WH-10
	Blue	10	JR-202142-10
	Green	10	JR-202143-10
	Yellow	10	JR-202144-10
	Red	10	JR-202145-10
Polypropylene 1/4"-28 nut, 1" long	Black	10	JR-202119-10
	White	10	JR-202121WH-10
Washer for 1/8" flanged fitting		10	JR-201928-10

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VICI JOUR - Low Pressure Fittings

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
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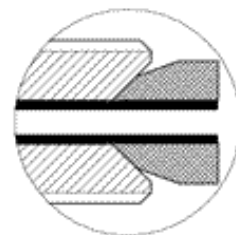
Accessories/miscellaneous

CUSTOMER SUPPORT

Polyacetal Color-Coded Flangeless Nuts

- Value-for-money alternative to PEEK
- Flange-free – compatible with all 1/4"-28 flat bottom ports
- Excellent chemical resistance
- Available for 1/16" and 1/8" tubing
- Fingertight – no tools required

Polyacetal flangeless nuts in combination with the inverted ferrule make leak-free seals without a flanging tool or a wrench. The inert ETFE ferrule is the only part besides the tubing which contacts the fluid – the nut itself does not contact the fluid stream. (See illustration) Six colors are available.



1/16" Polyacetal Color-Coded Flangeless Nuts

Pressure rating: up to 70 bar (1000 psi). Varies with tubing material and ID.

Description	Color	Qty/ pkg	Product No.
Polyacetal 1/4"-28 flangeless nut	Green	10	JR-040GR-10
	Blue	10	JR-040BL-10
	Yellow	10	JR-040YL-10
	Red	10	JR-040RE-10
	White	10	JR-040WH-10
	Black	10	JR-040BK-10
Polyacetal 1/4"-28 flangeless nut, 1" long	White	10	JR-040WL-10

1/16" ETFE ferrule	10	JR-041-10
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1/8" Polyacetal Color-Coded Flangeless Nuts

Pressure rating: up to 35 bar (500 psi). Varies with tubing material and ID.

Description	Color	Qty/ pkg	Product No.
Polyacetal 1/4"-28 flangeless nut	Green	10	JR-050GR-10
	Blue	10	JR-050BL-10
	Yellow	10	JR-050YL-10
	Red	10	JR-050RE-10
	White	10	JR-050WH-10
	Black	10	JR-050BK-10
Polyacetal 1/4"-28 flangeless nut, 1" long	White	10	JR-050WL-10
1/8" ETFE ferrule		10	JR-051-10

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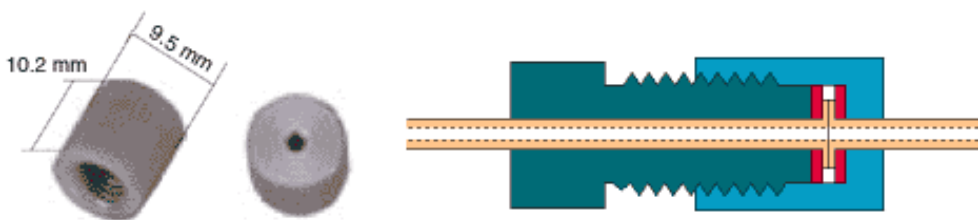
CUSTOMER SUPPORT

Flanged Tubing Connector

- For easy connection of flanged tubing
- Zero dead volume
- Available for 1/16" and 1/8" tubing

With its female 1/4"-28 thread, the VICI flanged tubing connector fits all of our flanged fittings. We recommend this PEEK connector instead of a union to make a zero dead volume connection.

For forming the flange on the tubing, we recommend our [Easy-Flange kit](#).



Flanged Tubing Connector

Pressure rating: up to 30 bar (435 psi). Varies with tubing material and ID.

Description	Product No.
For 1/16" tubing	JR-CEN1PK
For 1/8" tubing	JR-CEN2PK

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VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

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- Stainless steel
- Polymeric

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CUSTOMER SUPPORT

VICI JOUR - Low Pressure Fittings

Low Pressure Bulkhead Unions

- Panel mounting
- Easy connection of low pressure solvent lines
- Low dead volume
- Completely inert and biocompatible



Low Pressure Bulkhead Unions

Pressure rating: up to 105 bar (1500 psi) for 1/16", 35 bar (500 psi) for 1/8"

Description	Product No.
PEEK, 0.75 mm bore, with ETFE ferrules and PPS flangeless nuts for 1/16" tubing	JR- CBUMPK
PEEK, 1.50 mm bore, with ETFE ferrules and PPS flangeless nuts for 1/8" tubing	JR-CBULPK

Spare Parts

Description		Qty/pkg	Product No.
Nuts	PPS, flangeless, 1/16", black	10	JR-55070-10
	PPS, flangeless, 1/8", black	10	JR-55071-10
Ferrules	ETFE, 1/16"	10	JR-041-10
	ETFE, 1/8"	10	JR-051-10
Adapters	PP fingertight sleeve, yellow	10	JR-55086-10
	PP fingertight sleeve, blue	10	JR-55090-10

VICI JOUR - Low Pressure Fittings

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

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CUSTOMER SUPPORT

PEEK Biocompatible Mixing Tees

- Completely inert and biocompatible
- Mountable
- Two different bore sizes available
- 1/4"-28 ports for 1/16" and 1/8" OD tubing



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

The 0.75 mm bore tee is supplied with PPS flangeless nuts and ETFE ferrules for 1/16" OD tubing. The 1.50 mm bore version come with PPS flangeless nuts and ETFE ferrules for 1/8" OD tubing. The fingertight sleeves are polypropylene.

Dimensions

Body length: 44.5 mm; thickness: 22.2 mm

PEEK Biocompatible Mixing Tees

Pressure rating: up to 105 bar (1500 psi) for 1/16", 35 bar (500 psi) for 1/8".

Varies with tubing material and ID

Description	Product No.
PEEK mixing tee, 0.75 mm bore, with 1/16" fittings	JR-CM1XPK
PEEK mixing tee, 1.50 mm bore, with 1/8" fittings	JR-CM2XPK

Spare Parts

Description	Qty/pkg	Product No.
Nuts	PPS, flangeless 1/4"-28, 1/16"	10
	PPS, flangeless 1/4"-28, 1/8"	10
Ferrules	ETFE, 1/16"	10
		JR-55070-10
		JR-55071-10
		JR-041-10

	ETFE, 1/8"	10	JR-051-10
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Also available: [Fingertight adapters in additional colors](#)

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VICI JOUR - Low Pressure Fittings

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CUSTOMER SUPPORT

Low Pressure Polypropylene Adapters

- Adapt 10-32, 1/4"-28, barb, Luer, etc
- Completely inert and biocompatible

Description		Qty/ pkg	Product No.	
Male Luer to:	1/16" barbed	10	JR-070211-10	
	3/32" barbed	10	JR-070212-10	
	1/8" barbed	10	JR-070213-10	
	10-32 male	10	JR-070224-10	
	1/4"-28 female	10	JR-070225-10	
Female Luer to:	1/16" barbed	10	JR-070111-10	
	3/32" barbed	10	JR-070112-10	
	1/8" barbed	10	JR-070113-10	
	Female Luer	10	JR-070101-10	
	10-32 male	10	JR-070124-10	
	1/4"-28 male	10	JR-070123-10	
1/4"-28 male to:	1/16" barbed	10	JR-071123-10	
	1/8" barbed	10	JR-071323-10	

10-32 male to:	1/16" barbed	10	JR-071124-10	
	1/8" barbed	10	JR-071324-10	
Plugs	10-32	10	JR-072450-10	
	1/4"-28	10	JR-072350-10	

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VICI JOUR - Low Pressure Fittings

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CUSTOMER SUPPORT

Peristaltic Tubing Adapter Set

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

This "one-piece-fits-all" set consists of everything needed to connect 1/16" and 1/8" OD PTFE and PTFE-like tubing to soft tubing like silicone up to 4.50 mm OD. The adapter comes with three different bushings (for the different soft tubing OD's) and two PPS fittings with inverted ETFE ferrules (one each for 1/16" and 1/8" OD tubing). The body and bushings are PEEK.

Dimensions

Length (without fitting): 28 mm; diameter: 12 mm; bore: 0.50 mm



Peristaltic Tubing Adapter Set

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

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Flanged Fittings Kit

- A complete kit of flanged fittings and accessories
- All parts biocompatible
- Excellent chemical resistance

The flanged fitting kit contains all the materials

that are required to make flanged connections

for 1/16" and 1/8" OD tubing: flanged fittings,

washers, unions, tubing in four different sizes, our Clean-Cut tubing cutter, and a pair of tweezers.



CUSTOMER SUPPORT

Flanged Fittings Kit

Description	Product No.
Flanged fittings kit	JR-201529

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Index of contents of the Flanged Fitting Kit (Part-No. JR-201529)

Part-No.	Description	Qty
JR-201094Black	Black flanged nut 1/16"	10
JR-201094White	White flanged nut 1/16"	10
JR-201580Black	Black flanged nut 1/8"	10
JR-201580White	White flanged nut 1/8"	10
JR-201928Bushing	1/8" Polypropylene bushing	20
JR-201926Bushing	1/16" Polypropylene bushing	20
JR-060	Union	5
JR-797	Clean-cut tubing cutter	1
JR-4011	1/16" OD x 0.25 mm ID PTFE tubing	3 m
JR-4183	1/16" OD x 0.50 mm ID PTFE tubing	3 m
JR-4036	1/16" OD x 0.75 mm ID PTFE tubing	3 m
JR-6800	1/8" OD x 1.59 mm ID PTFE tubing	3 m
JR-806	Tweezer tool	1



VICI JOUR - High Pressure Fittings

VICI JOUR PRODUCTS

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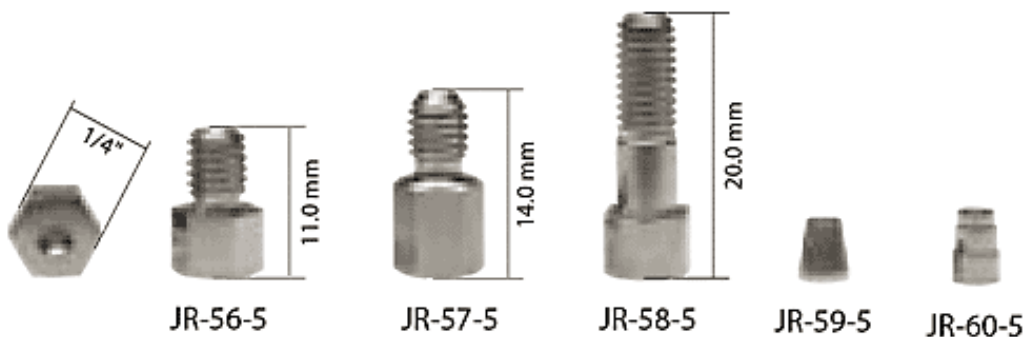
CUSTOMER SUPPORT

Rheodyne®-Type SS Nuts and Ferrules

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

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

Nuts and ferrules are SS316.



Further Reference

[Stainless steel tubing](#)

[ValvTool](#)

[High pressure nanovolume fittings](#)

[High pressure polymeric fittings](#)

Rheodyne-Type SS Nuts and Ferrules

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

With 10-32 threads for use with 1/16" tubing

Type	Qty/ pkg	Product No.
Nuts		
Short	5	JR-56-5

Long head	5	JR-57-5
X-long	5	JR-58-5
Ferrules		
Standard	5	JR-59-5
2-step	5	JR-60-5

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VICI JOUR - High Pressure Fittings

VICI JOUR PRODUCTS

Tubing for chromatography

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Accessories/miscellaneous

CUSTOMER SUPPORT

VICI SS Unions

- Easy connection of solvent lines
- Low dead volume
- Different bores available
- For 1/16" and 1/8" OD tubing



VICI Stainless Steel Unions are made for joining two pieces of 1/16" OD tubing, or an 1/8" tube to a 1/16" tube.

They are precision machined with a focus on the concentricity of the bore as well as on the finish of the surfaces to give an absolute leak-free connection. VICI SS Unions have internal threads, which we recommend for most applications.

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

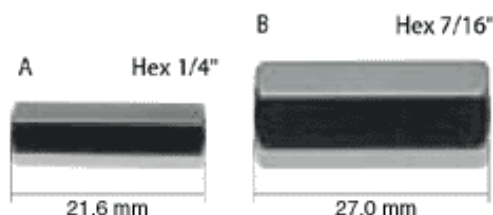
Unions are sold complete with all the necessary fittings. Nuts are SS303; ferrules are SS316; body is SS316.

Further Reference

[Stainless steel tubing](#)

[ValvTool](#)

[Stainless steel nuts and ferrules](#)



Stainless Steel Unions

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

Description	Bore	Drawing	Product No.
1/16" to 1/16" union (10-32 threads)	0.15 mm	A	JR-ZU1XCS6
	0.25 mm	A	JR-ZU1CS6

	0.50 mm	A	JR-ZU1MS6
	0.75 mm	A	JR-ZU1S6
1/8" to 1/16" union (5/16"-24 to 10-32 threads)	0.75 mm	B	JR-ZRU21
Replacement 1/16" nut, pkg. of 5			JR-ZN1-5
Replacement 1/16" ferrule, pkg. of 5			JR-ZF1S6-5
Replacement 1/8" nut, pkg. of 5			JR-ZN2-5
Replacement 1/8" ferrule, pkg. of 5			JR-ZF2S6-5

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VICI JOUR - High Pressure Fittings

VICI JOUR PRODUCTS

Tubing for chromatography

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Accessories/miscellaneous

CUSTOMER SUPPORT

VICI SS Tees and Crosses

- Easy connection of solvent lines
- Low dead volume
- Different bores available
- For 1/16" tubing



VICI stainless steel tees & crosses are made for joining solvent lines of tubing. They are precision machined with a focus on the concentricity of the bore as well as on the finish of the surfaces to give an absolute leak free connection. VICI SS tees & crosses have internal threads, which we recommend for most applications. Internal threads make stronger connections and internal fitting details provide the lowest dead volume for high performance instrumentation.

Tees and crosses are sold complete with all the necessary fittings. Nuts are SS303; ferrules are SS316; body is SS316.

Further Reference

[Stainless steel tubing](#)

[ValvTool](#)

[Stainless steel nuts and ferrules](#)

Stainless Steel Tees and Crosses

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

Body dimensions: 23.4 mm dia. x 12.7 mm thick

Description	Bore	Product No.
1/16" tee (10-32 threads)	0.25 mm	JR-ZT1C
	0.50 mm	JR-ZT1M
	0.75 mm	JR-ZT1
1/16" cross (10-32 threads)	0.25 mm	JR-ZX1C
	0.50 mm	JR-ZX1M
	0.75 mm	JR-ZX1

Replacement 1/16" nut, pkg of 5	JR-ZN1-5
Replacement 1/16" ferrule, pkg of 5	JR-ZF1S6-5

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VICI JOUR - High Pressure Fittings

VICI JOUR PRODUCTS

Tubing for chromatography

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- Stainless steel
- Polymeric

Low pressure fittings

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CUSTOMER SUPPORT

VICI SS Plugs and Caps

- Plug a port or cap a solvent line
- For 1/16" OD or 1/8" OD tubing

Caps are made of SS303, as is the 1/8" plug; the 1/16" plug is SS316. All 1/16" threads are 10-32; 1/8" threads are 5/16"-24.



Further Reference

[Stainless steel tubing](#)

[ValvTool](#)

[Stainless steel nuts and ferrules](#)

Stainless Steel Plugs and Caps

Description	Product No.
1/16" plug	JR-ZP1
1/8" plug	JR-ZC1
1/16" cap	JR-ZC1
1/8" cap	JR-ZC2

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Stainless Steel Starter Kit

- Ideal kit for HPLC users
- For high pressure applications

The Kit consists of fittings, ferrules, tubing, solvent filters, a union, our stainless steel tubing cutter, and other useful tools like our ValvTool, all together in a handy box at a very competitive price!



Stainless Steel Starter Kit

Description	Product No.
SS starter kit	JR-35S

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Index of contents of the SS Starter Kit (Part-No. JR-35S)

Part No.	Description	Qty
JR-3675-2	Filter, SS, mobile phase 2 um, 1/8" pipe OD	1
JR-68230-5	Filter, SS, In-Line ID 0.25 mm, complete, frit SS 5 um	1
JR-792	Tool, Tubing Cutter for metal tubing	1
JR-800	Tool, ValvTool 1/4" and 5/16" open wrench	1
JR-804	Tool, wrench 1/4" x 5/16"	1
JR-806	Tool, Tweezers, Polypropylen, Pinzette	1
JR-9000-0532	Filter, SS, Last Drop 10 um, tripod tubing connector	1
JR-LZN1	Nut, SS, X-long, Valco type, 10-32	10
JR-T-625-10-M3	Tubing, SS, 1/16" OD x 0.25 mm ID, 3 m/pkg	1
JR-T-625-20-M3	Tubing, SS, 1/16" OD x 0.50 mm ID, 3 m/pkg	1
JR-T-97030	Tubing, SS, precut 1/16" OD x 0.18 mm ID, length 100 mm	2
JR-T-97060	Tubing, SS, precut 1/16" OD x 0.25 mm ID, length 200 mm	2
JR-ZF1S6	Ferrule, SS, Valco type, 1/16"	20
JR-ZN1	Nut, SS, Valco type, 1/16", 10-32	10
JR-ZU1CS6	Union, SS, bore 0.25 mm, 1/16", 10-32, complete	1

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CUSTOMER SUPPORT

ChromBox Kit

- For startup and standard use in all HPLC systems

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 of high quality SS 316L, PEEK, and PTFE. All together for a very competitive price!



ChromBox Kit

Description	Product No.
ChromBox kit	JR-34N

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Index of contents of the Chrombox Kit (Part-No. JR-34N)

Part-No.	Description	Qty
JR-061	Union, PEEK, 0.25 mm bore, body only	1
JR-357090	Tubing Elbow 90°	1
JR-357180	Tubing Elbow 180°	1
JR-5004	Ferrule, PEEK, double 1/16"	10
JR-55020-1	Fitting, PEEK, one-piece natural, 10-32	5
JR-5510	Nut, PEEK, hex-head long, 10-32	5
JR-5580	Nut, PEEK, hand-tight, 10-32	5
JR-68250	Filter, PEEK, In-Line, complete, frit PAT PEEK-encased 5 um	1
JR-796	Tool, Tubing Plier for metal tubing	1
JR-797	Tool, Clean-Cut Tubing Cutter	1
JR-800	Tool, ValvTool 1/4" and 5/16" open wrench	1
JR-802	Tool, file	1
JR-804	Tool, wrench 1/4" x 5/16"	2
JR-806	Tool, Tweezers, Polypropylen, Pinzette	1
JR-9000-0530	Filter, SS, Last Drop 2 um	1
JR-9001	Tubing Clip	2
JR-LZN1	Nut, SS, X-long, Valco type, 10-32	5
JR-MZN1	Nut, SS, 1/16" Medium, 10-32	5
JR-T-6001-M3	Tubing, PEEK, 1/16" OD X 0.25 mm ID, blue striped, 3 m/pkg	1
JR-T-6002-M3	Tubing, PEEK, 1/16" OD X 0.50 mm ID, orange striped, 3 m/pkg	1
JR-T-625-10-M3	Tubing, SS, 1/16" OD x 0.25 mm ID, 3 m/pkg	1
JR-T-625-20-M3	Tubing, SS, 1/16" OD x 0.50 mm ID, 3 m/pkg	1
JR-T-6800-M3	Tubing, PTFE, 1/8" OD x 1.59 mm ID, 3 m/pkg	1
JR-ZF1S6	Ferrule, SS, Valco type, 1/16"	10
JR-ZU1MS6	Union, SS, bore 0.50 mm, 1/16", 10-32, complete	1

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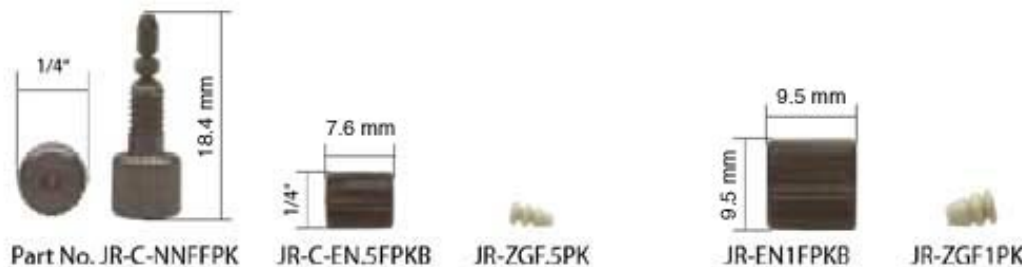
Accessories/miscellaneous

CUSTOMER SUPPORT

Nanovolume® Nuts and Ferrules

- PEEK - completely biocompatible
- For PEEK, PEEKclad-FST™, and electroformed nickel tubing

VICI nanovolume fittings are designed for capillary LC used in HTS techniques, proteomics, genomics, and other newer developments in industrial routine research. Small sample size, reduction of analysis time, and higher expectations on instrumentation as well as on accessories are required. VICI nanovolume connectors include our new one-piece fingertight fittings for 1/32" OD tubing with a patented* collapsible ferrule. VICI nanovolume fittings are as easy to handle as our standard analytical fittings and unions. The only difference is their size.



PEEK Nanovolume® Nuts and Ferrules

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

Threads: Nuts: 6-40; External nuts: 10-32 for 1/16", 8-36 for 1/32"

Description	Product No.
One-piece 1/32" fitting with grooved ferrule	JR-C-NNFFPK
1/32" external nut	JR-C-EN.5FPKB
1/32" grooved ferrule	JR-ZGF.5PK
1/32" plug	JR-C-NPFPK
1/16" external nut	JR-EN1FPKB
1/16" grooved ferrule	JR-ZGF1PK

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Nanovolume® Unions and Reducing Unions

- 100 and 150 micron bores available
- PEEK - completely biocompatible
- For PEEK, PEEKclad-FST™, and electroformed nickel tubing



VICI nanovolume unions and reducing unions are designed for capillary LC used in HTS techniques, proteomics, genomics, and other newer developments in industrial routine research. Small sample size, reduction of analysis time, and higher expectations on instrumentation as well as on accessories are required.

VICI nanovolume unions have one internal and one external 1/32" zero dead volume fitting. The reducing union has an external 1/16" fitting and an internal 1/32" fitting. Both are shipped complete with the proper nuts and ferrules, including our new one-piece fingertight fitting for 1/32" OD tubing where appropriate.

PEEK Nanovolume® Unions and Reducing Unions

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

Threads: Nuts: 6-40; External nuts: 10-32 for 1/16", 8-36 for 1/32"

Description	Product No.
100 µm bore union, 1/32" external to 1/32" internal	JR-C-NEU.5XFPK
150 µm bore union, 1/32" external to 1/32" internal	JR-C-NEU.5FPK
150 µm bore reducing union, 1/16" external to 1/32" internal	JR-C-NERU1FPK

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Nanovolume® Tees, Crosses, and Y's

- 100 and 150 micron bores available
- PEEK - completely biocompatible
- For PEEK, PEEKclad-FST™, and electroformed nickel tubing



VICI nanovolume connectors are designed for capillary

LC used in HTS techniques, proteomics, genomics,

and other newer developments in industrial routine research. Small sample size, reduction of analysis time, and higher expectations on instrumentation as well as on accessories are required.

VICI nanovolume connectors are shipped complete with our new one-piece fingertight fitting for 1/32" OD tubing.

PEEK Nanovolume® Tees, Crosses, and Y's

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

Threads: 6-40

Type	Bore	Product No.
Tee	100 µm	JR-C-NTXFPK
	150 µm	JR-C-NTFPK
Cross	100 µm	JR-C-NXXFPK
	150 µm	JR-C-NXFPK
Y	100 µm	JR-C-NYXFPK
	150 µm	JR-C-NYFPK

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CUSTOMER SUPPORT

PEEK Liners for Nanovolume® Fittings

- Work with the most common FS tubing sizes
- Two lengths for different fitting styles
- Available with embedded 1 µm screen for FS column closure

Use these 1/32" OD natural PEEK liners with nanovolume connectors to adapt to the most common sizes of fused silica tubing. Typically, the shorter liner is used with an external nut, and the longer with a one-piece internal fitting. The liner with an embedded 1 µm screen (SS316L) provides an ideal closure for a fused silica column.

1/32" OD PEEK Liners

for FS OD	Length	Qty/ pkg	Product No.
125-175 µm	27	5	JR-C-NL.15L-5
	10	5	JR-C-NL.15S-5
175-225 µm	27	5	JR-C-NL.20L-5
	10	5	JR-C-NL.20S-5
225-275 µm	27	5	JR-C-NL.25L-5
	10	5	JR-C-NL.25S-5
275-325 µm	27	5	JR-C-NL.30L-5
	10	5	JR-C-NL.30S-5
325-375 µm	27	5	JR-C-NL.35L-5
	10	5	JR-C-NL.35S-5



1/32" PEEK Liners with Embedded 1µm Screen

for FS OD	Length	Qty/ pkg	Product No.
-----------	--------	-------------	-------------

125-175 µm	28	5	JR-C-NLS1.15-5
175-225 µm	28	5	JR-C-NLS1.20-5
225-275 µm	28	5	JR-C-NLS1.25-5
275-325 µm	28	5	JR-C-NLS1.30-5
325-375 µm	28	5	JR-C-NLS1.35-5



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PPS One-Piece Hex Head/Fingertight Fittings

- Economically priced alternative to PEEK
- Excellent chemical resistance
- One-piece – no ferrule required
- Slim design – fingertight with adapter
- 10-32 threads, for 1/16" tubing

The new VICI Jour PPS one-piece hex-head/fingertight fitting offers excellent chemical and pressure resistance. The Color-Sleeve adapter, available in twelve colors for color-coding, converts the hex head nut into a fingertight fitting in an instant.



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Chemical Resistance

Acids, organic	A
Acids, inorganic	A/C*
Aldehydes	A
Alcohols	A
Bases	A/B
Esters	A
Halogenated org.	A/B

* conc. Halogen acids

A = Suitable

B = Marginal; dependent on application

C = Not recommended

Hydrocarbons	A
Ketones	A

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High pressure stainless steel fittings

One-piece fingertight fittings, color-coded PEEK

One-piece fingertight fittings, natural PEEK

One-piece hex-head fittings, natural PEEK

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PPS One-Piece Hex-Head/Fingertight Fitting

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

Material: PolyPhenylene Sulfide nut, Polypropylene adapter

Description	Color	Qty/ pkg	Product No.
PPS one-piece fitting, hex-head	Black	5	JR-58000-5
Color-Sleeve fingertight adapters	Natural	5	JR-55080-5
	White	5	JR-55081-5
	Dark grey	5	JR-55082-5
	Black	5	JR-55083-5
	Lavender	5	JR-55084-5
	Red	5	JR-55085-5
	Yellow	5	JR-55086-5
	Orange	5	JR-55087-5
	Brown	5	JR-55088-5
	Green	5	JR-55089-5
	Blue	5	JR-55090-5
	Purple	5	JR-55091-5
	2 each	24	JR-5508X- 24

	2 blue	12	JR-5508X-
	2 red		12
	2 green		
	2 yellow		
	2 black		
	2 white		

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PEEK Color-Coded One-Piece Fingertight Fittings

- Fingertight up to 350 bar (5000 psi)
- Excellent chemical resistance
- One-piece – no ferrule required
- Biocompatible
- 10-32 threads, for 1/16" tubing

To identify various tubing lines the PEEK fingertight fittings are available in six colors. The coloration pigments are carefully chosen to contain no heavy metals or hazardous chemicals.

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



CUSTOMER SUPPORT

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[One-piece fingertight fittings, natural PEEK](#)

[One-piece hex-head fittings, natural PEEK](#)

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PEEK Color-Coded One-Piece Fingertight Fittings, Molded

Color	Qty/ pkg	Product No.
Natural	5	JR-55020-5
Black	5	JR-55021-5
Red	5	JR-55022-5
Yellow	5	JR-55023-5

Blue	5	JR-55024-5
Green	5	JR-55025-5

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CUSTOMER SUPPORT

Natural PEEK One-Piece Fingertight Fittings

- Fingertight up to 350 bar (5000 psi)
- Excellent chemical resistance
- Machined, not molded
- One-piece – no ferrule required
- Biocompatible
- 10-32 threads, for 1/16" tubing

JR-5502-5



12.0 mm



22.0 mm

JR-5504-5



12.0 mm



17.1 mm



12.0 mm



25.1 mm



1/4"

JR-5507-5

JR-5508-5



28.1 mm

Natural PEEK One-Piece Fingertight Fittings, Machined

Description	Qty/ pkg	Product No.
One-piece 10-32 PEEK fitting	5	JR-5502-5
One-piece 10-32 PEEK fitting, short head	5	JR-5504-5
One-piece 10-32 PEEK fitting, long	5	JR-5507-5
One-piece 10-32 PEEK fitting, narrow hex head	5	JR-5508-5

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One-piece fingertight fittings, PPS

One-piece fingertight fittings, color-coded PEEK

One-piece hex-head fittings, natural PEEK

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CUSTOMER SUPPORT

Natural PEEK One-Piece Hex-Head Fittings

- Ideal for use with PEEK tubing
- Withstand pressures up to 350 bar (5000 psi)
- For any high pressure fittings

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



Natural PEEK One-Piece Hex-Head Fittings, Machined

Description	Qty/ pkg	Product No.
One-piece 10-32 hex-head PEEK fitting, short	5	JR-55100-5
One-piece 10-32 hex-head PEEK fitting, long	5	JR-55110-5

Further Reference

[Tubing](#)

[ValvTool](#)

[Color-It snap-on fingertight adapters](#)

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Color-It Fingertight Adapters

- Easy solvent line identification
- Fit all PEEK and SS stainless hex fittings for 1/16" tubing
- Six different colors available

We recommend the Color-It snap-on fingertight extensions for color coding our 1/4" hex-head nuts. Color-It adapters are useful for color coding different solvent lines, plus they turn your hex-head nuts into fingertight fittings in an instant. Color-It adapters are available in six different colors (blue, yellow, green, black, white, and red). They can be used with our PEEK and stainless steel hex-head nuts for 1/16" OD tubing.



Color-It Fingertight Adapters

Color	Qty/ pkg	Product No.
Blue	5	JR-55010-5
Yellow	5	JR-55011-5
Green	5	JR-55012-5
Black	5	JR-55013-5
White	5	JR-55014-5
Red	5	JR-55015-5

2 each color	12	JR-55016- 12
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Further Reference

Tubing

PEEK nuts for use with double ferrule

One-piece hex-head fittings, natural PEEK

High pressure stainless steel fittings

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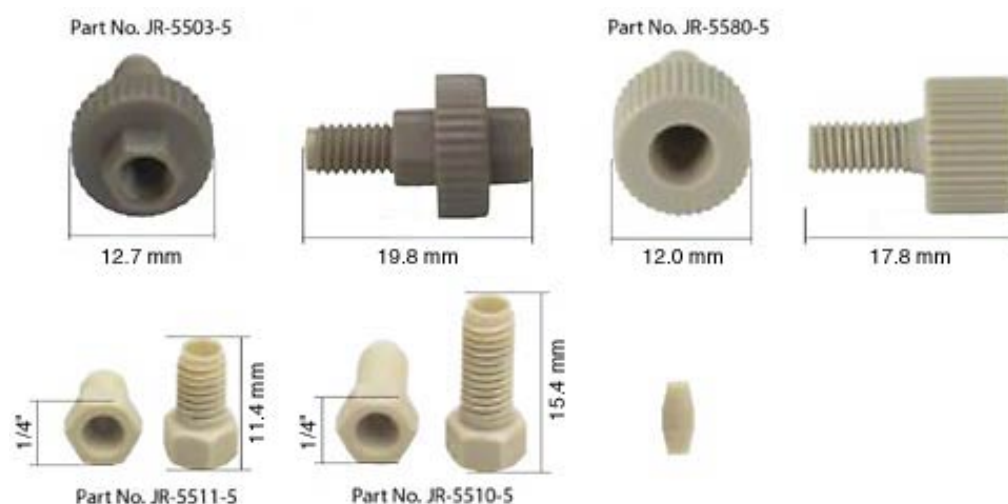
Accessories/miscellaneous

CUSTOMER SUPPORT

PEEK Nuts for Use With VICI Jour Double Ferrule

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

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



PEEK Nuts for Use With Double Ferrule

Tolerances: ± 0.05 mm (.002")

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

Further Reference

Tubing

ValvTool

PEEK nuts for use with single ferrule

One-piece fingertight fittings, PPS

One-piece fingertight fittings, color-coded PEEK

One-piece hex-head fittings, natural PEEK

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CUSTOMER SUPPORT

PEEK Nuts for Use With VICI Jour Single Ferrule

- Reuseable nut, replaceable ferrule
- For 1/16" or 1/8" tubing
- Suitable for high pressure 10-32 and 5/16"-24 ports

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



PEEK Nuts for Use With Single Ferrule

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

Description	Qty/ pkg	Product No.
1/16" PEEK fingertight nut for use with single ferrule	5	JR-5570-5
1/16" PEEK single ferrule	5	JR-5503-5
1/8" PEEK fingertight nut for use with single ferrule	5	JR-ZN2PK-5
1/8" PEEK single ferrule	5	JR-ZF2PK-5

Further Reference

[Tubing](#)

[PEEK nuts for use with double ferrule](#)

[One-piece fingertight fittings, PPS](#)

[One-piece fingertight fittings, color-coded PEEK](#)

[One-piece hex-head fittings, natural PEEK](#)

[High pressure nanovolume fittings](#)

[High pressure stainless steel fittings](#)

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CUSTOMER SUPPORT

PEEK Unions

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

VICI Jour PEEK unions are usable with most common HPLC solvents (organic and inorganic) without the risk of corrosion, metal contamination, or protein degradation that might occur with stainless steel. Small diameter bores ensure low dead volume connections. Connections to these PEEK unions can be made with any 10-32 fitting that uses a polymeric ferrule. The unions use the standardized Valco fitting details with smooth transition of the taper into the threaded part.

Unions are available complete with our PEEK one-piece fingertight fittings ready to connect to any 1/16" OD tubing (PEEK, stainless steel, PTFE, ETFE, etc.), or in a "body only" version. The body only version allows you to use **color-coded PEEK one-piece fittings** for easy solvent line identification.



Part No. JR-1061



Part No. JR-ZBU1FPK



Part No. JR-ZRU21FPK

Jump to product numbers for:

[PEEK unions](#)

[PEEK bulkhead unions](#)

[PEEK reducing union](#)

[Spare parts](#)

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PEEK Unions

Pressure rating: < 350 bar (5000 psi)

Description		Product No.
0.25 mm bore	With PEEK one-piece fittings	JR-1061

	Body only	JR-061
0.50 mm bore	With PEEK one-piece fittings	JR-1066
	Body only	JR-066
0.75 mm bore	With PEEK one-piece fittings	JR-1067
	Body only	JR-067

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PEEK Bulkhead Unions

Pressure rating: < 350 bar (5000 psi)

Mounting requires a 10 mm panel hole.

Description	Product No.
0.25 mm bore, with PEEK one-piece fittings	JR-ZBU1CFPK
0.50 mm bore, with PEEK one-piece fittings	JR-ZBU1MFPK
0.75 mm bore, with PEEK one-piece fittings	JR-ZBU1FPK

PEEK Reducing Union

Pressure rating: < 350 bar (5000 psi)

Description	Product No.
1/8" to 1/16", 0.75 mm bore, with PEEK one-piece fittings	JR-ZRU21FPK

PEEK Union Spare Parts

Description	Qty/pkg	Product No.
PEEK one-piece fitting, black, 10-32; Fits all JR-106X unions	5	JR-55021-5
PEEK hex-head 1/8" nut, 5/16"-24; For JR-ZRU21FPK reducing union	5	JR-ZN2PK-5
PEEK 1/8" ferrule; For JR-ZRU21FPK reducing union	5	JR-ZF2PK-5

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CUSTOMER SUPPORT

PEEK Tees, Crosses, and Manifolds

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

VICI Jour PEEK tees, crosses, and manifolds are usable with most common HPLC solvents (organic and inorganic) without the risk of corrosion, metal contamination, or protein degradation that might occur with stainless steel. Small diameter bores ensure low dead volume connections. Connections to tees, crosses, and manifolds can be made with any 10-32 fitting that uses a polymeric ferrule. All use the standardized Valco fitting details with smooth transition of the taper into the threaded part.

Tees, crosses, and manifolds are available complete with our PEEK one-piece fingertight fittings ready to connect to any 1/16" OD tubing (PEEK, stainless steel, PTFE, ETFE, etc.), or in a "body only" version. The body only version allows you to use [color-coded PEEK one-piece fittings](#) for easy solvent line identification.



Jump to product numbers for:

[PEEK tees](#)

[PEEK crosses](#)

[PEEK manifolds](#)

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PEEK Tees, High Pressure

Pressure rating: < 350 bar (5000 psi)

Body dimensions: 25.0 mm diameter x 12.0 mm thick

Description		Product No.
0.25 mm bore	With PEEK one-piece fittings	JR-1030
	Body only	JR-2030
0.50 mm bore	With PEEK one-piece fittings	JR-1032
	Body only	JR-2032
0.75 mm bore	With PEEK one-piece fittings	JR-1033
	Body only	JR-2033
One-piece PEEK 10-32 fitting, black, pkg of 5		JR-55021-5

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PEEK Crosses, High Pressure

Pressure rating: < 350 bar (5000 psi)

Body dimensions: 25.0 mm diameter x 12.0 mm thick

Description		Product No.
0.25 mm bore	With PEEK one-piece fittings	JR-1040
	Body only	JR-2040
0.50 mm bore	With PEEK one-piece fittings	JR-1042
	Body only	JR-2042
0.75 mm bore	With PEEK one-piece fittings	JR-1043
	Body only	JR-2043
One-piece PEEK 10-32 fitting, black, pkg of 5		JR-55021-5

PEEK Manifolds, High Pressure

Pressure rating: < 350 bar (5000 psi)

Body dimensions: 25.4 mm diameter x 22.9 mm thick

Description	Product No.
6 inlets to 1 outlet manifold, with PEEK one-piece fittings	JR-Z6M1PK

6 inlets to 1 outlet manifold, body only	JR-B-Z6M1PK
One-piece PEEK 10-32 fitting, black, pkg of 5	JR-55021-5

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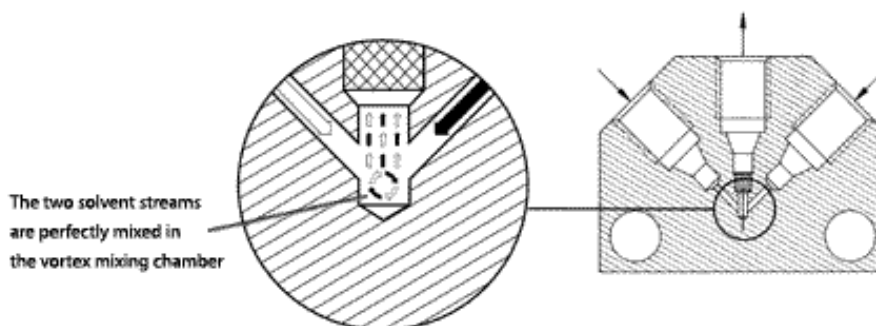
[Main VICI site](#)

Biocompatible PEEK Mixing Tee

- High pressure gradient mixing
- Post column reactions
- 350 bar (5000 psi)
- Completely biocompatible



A unique mixing is the result of the turbulence generated by the introduction angle of the solvents as well as the flow through our 5 µm protein-friendly PAT filter element. The two solvent streams mix more thoroughly than with a conventional tee. This biocompatible tee can be used for high-pressure gradient mixing as well as for post column reactions. Comes complete with one-piece fittings for 1/16" tubing.



PEEK Mixing Tee

Tolerances: ± 0.05 mm (.002")

Body dimensions: 25.4 mm x 9.5 mm thick

Internal volume including frit: 4 µl

Description	Product No.
PEEK mixing tee, complete with one-piece fittings	JR-9000-0665

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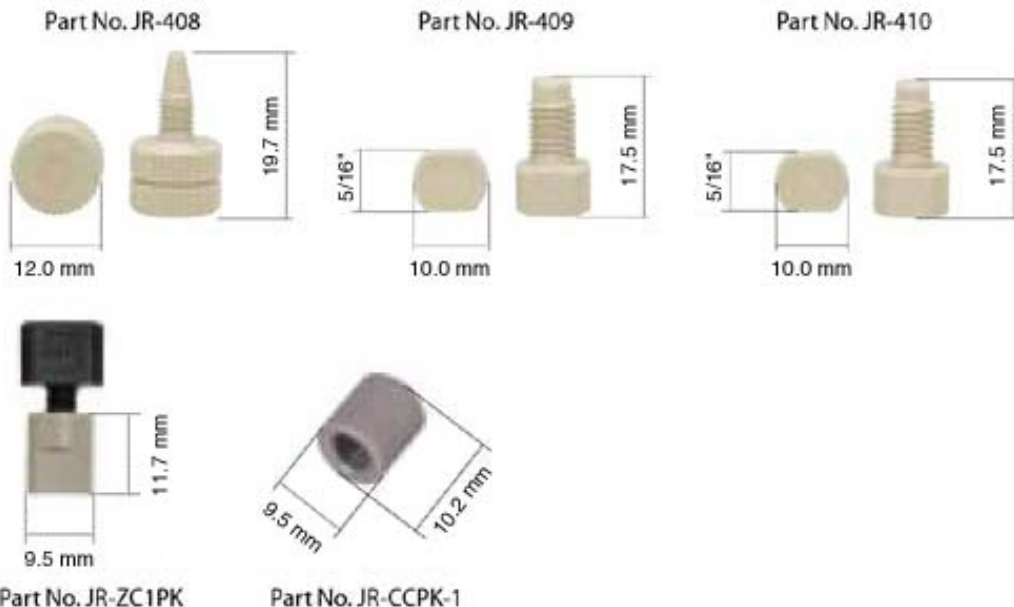
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PEEK Plugs and Caps

- Plug a port or cap a solvent line
- All common thread sizes available



PEEK Plugs and Caps

Pressure rating: < 350 bar (5000 psi)

Description	Product No.
PEEK plug, 10-32	JR-408
PEEK plug, 1/4"-28	JR-409
PEEK plug, M6	JR-410
PEEK cap, female 10-32	JR-ZC1PK
PEEK cap, female 1/4"-28	JR-CCPK-1



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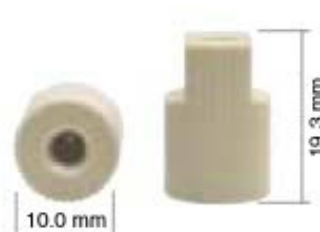
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PEEK Adapters

- Go from 10-32 to 1/4"-28 or M6 threads
- Easy connection of solvent lines
- Low dead volume
- Completely inert and biocompatible



Part No. JR-062



Part No. JR-5595



Part No. JR-5505

PEEK Adapters

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

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PEEK Port and Luer Adapters

- Go from 10-32 to 1/4"-28 or M6 threads
- Easy connection of solvent lines
- Low dead volume
- Completely inert and biocompatible

PEEK port adapters connect standard LC fittings to standard LC ports. They are available with 1/4"-28, M6, or 10-32 threads (configured for Valco). Male and female Luer adapters connect Luer fittings, 10-32, 1/4"-28, and M6 threaded fittings. All have a 0.40 mm through-hole.

CUSTOMER SUPPORT

PEEK Port and Luer Adapters

Pressure rating: M6 and 1/4"-28: < 70 bar (1000 psi); Luer: <3.5 bar (50 psi)

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



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PEEK Starter Kit

- All parts are biocompatible
- Ideal for all HPLC users

For a number of interesting LC applications involving proteins, peptides, nucleic acids, or other samples of biological origin, metal systems may interact with samples or release transition metals that will deactivate columns. By replacing stainless steel parts such as tubing, fittings, ferrules, mobile phase filters, in-line filters, etc. a biocompatible, metal-free environment is created for samples and mobile phase.



The PEEK Starter Kit is ideal for everybody working in the field of biochromatography. The kit consists of fittings, ferrules, tubing, solvent filters, a union, our Clean-Cut tubing cutter, and other useful accessories like our tubing elbows, all together in a handy box at a very competitive price!

PEEK Starter Kit

Description	Product No.
PEEK starter kit	JR-35P

[Complete list of contents \(pdf\)](#)

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Index of contents of the PEEK Starter Kit (Part-No. JR-35P)

Part-No.	Description	Qty
JR-061	Union, PEEK, 0.25 mm bore, body only	1
JR-357090	Tubing Elbow 90°	2
JR-357180	Tubing Elbow 180°	2
JR-5004	Ferrule, PEEK, double 1/16"	20
JR-55020-1	Fitting, PEEK, one-piece natural, 10-32	10
JR-5510	Nut, PEEK, hex-head long, 10-32	5
JR-5580	Nut, PEEK, hand-tight, 10-32	5
JR-68250	Filter, PEEK, In-Line, complete, frit PAT PEEK-encased 5 um	1
JR-797	Tool, Clean-Cut Tubing Cutter	1
JR-806	Tool, Tweezers, Polypropylen, Pinzette	1
JR-9000-0521	Filter, PTFE, Last Drop 5 um, tripod tubing connector	1
JR-T-6002-M3	Tubing, PEEK, 1/16" OD X 0.50 mm ID, orange striped, 3 m/pkg	1
JR-TP-6001-M3	Tubing, Premium, PEEK, 1/16" OD X 0.25 mm ID, blue, dash-stripe, 3 m/pkg	1

Updated April 2005

VICI reserves the right to correct errors and change prices, designs, or specifications without notice or liability. The information on this sheet is correct to the best of our knowledge but is not guaranteed to be so. VICI assumes no responsibility with respect thereto.

VICI JOUR - Tubing for Chromatography

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CUSTOMER SUPPORT

PEEK Tubing

- 1/32", 1/16", 1/8", and 1/4" ODs
- Available premium grade tubing with tighter tolerances
- Easy to cut
- Biocompatible



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

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

The new VICI Jour striped premium grade PEEK tubing is the best choice for chromatography applications in which exact flow rates or tube volume are important. The tighter tolerance of ± 0.025 mm ensures a more consistent internal volume of the transfer lines.

PEEK tubing is not affected by halide salts, high strength buffers, or other aggressive mobile phases that degrade stainless steel. The polymer surface will not leach metal ions into the eluent or extract metal sensitive components from the sample. By far the most outstanding property of PEEK tubing is its excellent burst pressure.

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

Product Numbers

Jump to product numbers for:

- Premium grade PEEK tubing – Dash-striped color-coded
- PEEK tubing – Striped color-coded

Further Reference

[Clean-Cut tubing cutter](#)

[PEEK tubing elbows](#)

[PEEK fingertight fittings](#)

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Premium grade PEEK tubing – Dash-striped color-coded

Max recommended working temp:

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

Tolerances: ± 0.025 mm (.001"), OD and ID

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

*Recommended maximum permanent working pressure (measured with ACN/Water 1:1 at room temperature)

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PEEK tubing – Striped color-coded

Max recommended working temp:

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

Tolerances: ±0.05 mm (.002"), OD and ID

OD	ID (mm)	Color	bar*	psi*	Qty/pkg	Product No.
1/16"	0.13	Red	420	6100	3 m	JR-T-5999-M3
					10 m	JR-T-5999-M10

	0.18	Yellow	400	5800	3 m	JR-T-6000-M3
					10 m	JR-T-6000-M10
	0.25	Blue	386	5600	3 m	JR-T-6001-M3
					10 m	JR-T-6001-M10
	0.50	Orange	350	4500	3 m	JR-T-6002-M3
					10 m	JR-T-6002-M10
	0.75	Green	240	3500	3 m	JR-T-6003-M3
					10 m	JR-T-6003-M10
	1.00	Grey	165	2400	3 m	JR-T-60031-M3
					10 m	JR-T-60031-M10
	1.40	Black	52	750	3 m	JR-T-60032-M3
					10 m	JR-T-60032-M10

*Recommended maximum permanent working pressure (measured with ACN/Water 1:1 at room temperature)

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PEEK tubing – Solid color-coded

Max recommended working temp:

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

Tolerances: ±0.05 mm (.002"), OD and ID

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

					10 m	JR-T-6010-M10
	0.75	Green	240	3500	3 m	JR-T-6011-M3
					10 m	JR-T-6011-M10

*Recommended maximum permanent working pressure (measured with ACN/Water 1:1 at room temperature)

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PEEK tubing – Natural

Max recommended working temp:

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

Tolerances:

1/16: ±0.05 mm (.002"), OD and ID 1/8: ±0.10 mm (.004"), OD and ID

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

*Recommended maximum permanent working pressure (measured with ACN/Water 1:1 at room temperature)

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- Nanovolume
- Stainless steel
- Polymeric

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PEEK Tubing Elbows

- Ideal for routing 1/16" OD PEEK tubing
- Optimum radius, prevents kinking
- 90° and 180° elbows



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

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PEEKclad-FST™ – PEEK-Clad Fused Silica Tubing

- For zero dead volume connections
- Perfect for capillary LC
- Inert, smooth flow path
- 1/32" or 1/16" OD and 25-300 µm ID

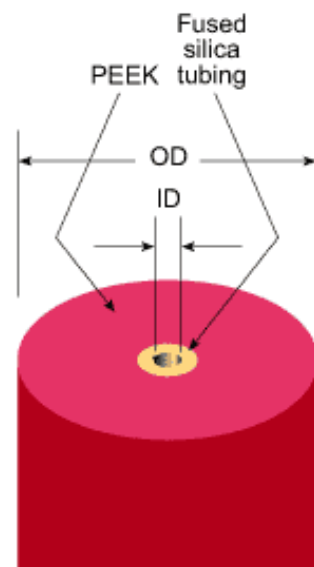
This product combines the inert, smooth inner surface and very precise IDs of fused silica with the flexibility and easy handling of PEEK. Due to its mechanical strength, it can be used with either polymeric or metal ferrules.

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

All this may result in a lower carry over or cross contamination between samples, which can lead to improved reproducibility. The smooth inner wall surface gives lower band broadening and therefore higher efficiency and resolution.

PEEKclad™ is compatible with most organic solvents and strong acids (pH 0–10), but not compatible with hydrofluoric acid. In fitting details the PEEK outer surface may be wetted; thus the chemical compatibility of PEEK has to be considered.

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



Product Numbers

Jump to product numbers for:

[1/32" OD tubing](#)

[1/16" OD tubing](#)

Further Reference

[Nanovolume fittings](#)

[PEEK fingertight fittings](#)

Tech Tip

To ensure zero dead volume connections, special cutting techniques and equipment are required. For this reason, PEEKclad-FST is available only in pre-cut lengths.

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1/32" OD PEEKclad-FST

Tolerances: ID ≤ 50µm: ± 3µm; ID 75-150µm: ± 5 µm

Pressure rating: 586 bar (8500 psi)

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

			500	2	JR-TS-32450
	150 µm	purple	50	2	JR-TS-3265
			100	2	JR-TS-32610
			150	2	JR-TS-32615
			250	2	JR-TS-32625
			500	2	JR-TS-32650

Other IDs available. [Contact the factory.](#)

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1/16" OD PEEKclad-FST

Tolerances: ID ≤ 50µm: ± 3µm; ID 75-150µm: ± 5 µm

Pressure rating: 586 bar (8500 psi)

OD	ID (mm)	Color	Length (mm)	Qty/pkg	Product No.
1/16"	25 µm	Orange	50	5	JR-TS-3215
			100	5	JR-TS-16110
			150	5	JR-TS-16115
			250	5	JR-TS-16125
			500	2	JR-TS-16150
	50 µm	Natural	50	5	JR-TS-1625
			100	5	JR-TS-16210
			150	5	JR-TS-16215
			250	5	JR-TS-16225
			500	2	JR-TS-16250
	75 µm	Black	50	5	JR-TS-1635
			100	5	JR-TS-16310
			150	5	JR-TS-16315
			250	5	JR-TS-16325
			500	2	JR-TS-16350
	100 µm	Red	50	5	JR-TS-1645

			100	5	JR-TS-16410
			150	5	JR-TS-16415
			250	5	JR-TS-16425
			500	2	JR-TS-16450
	150 µm	purple	50	5	JR-TS-1665
			100	5	JR-TS-16610
			150	5	JR-TS-16615
			250	5	JR-TS-16625
			500	2	JR-TS-16650

Other IDs available. [Contact the factory.](#)

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VICI JOUR - Tubing for Chromatography

VICI JOUR PRODUCTS

Tubing for chromatography

High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

Filters & mobile phase filters

Mobile phase handling systems

Frits

PEEK columns & guard columns

Sample loops

Accessories/miscellaneous

CUSTOMER SUPPORT

Pre-Cut Premium Grade Stainless Steel Tubing

- Premium grade seamless SS316L with polyethylene caps and color-coded sleeves
- For 1/16" zero dead volume connections
- Ready to use
- Cleaned
- Soft annealed OD for easy ferrule connections



VICI offers pre-cut stainless steel tubing in lengths most commonly required in HPLC systems. These tubes are cut to square, burr-free ends for zero dead volume connections. VICI pre-cut tubing is electrolytically cut and specially steam cleaned to remove both organic and inorganic contaminants. Softener-free polyethylene caps are used to prevent contamination of the tubing.

Tolerances: OD: ± 0.05 mm (.002"); ID: ± 0.025 mm (.001")

Pressure rating: min 365 bar (5300 psi)

OD	ID (mm)	Color	Length (mm)	Product No.
1/16"	0.13	Red	50	JR-T-97005
			100	JR-T-97010
			200	JR-T-97015
			300	JR-T-97020
	0.18	Yellow	50	JR-T-97025
			100	JR-T-97030
			200	JR-T-97035
			300	JR-T-97040
	0.25	Blue	50	JR-T-97045
			100	JR-T-97050
			200	JR-T-97060
			300	JR-T-97065

	0.50	Orange	50	JR-T-97075
			100	JR-T-97080
			200	JR-T-97085
			300	JR-T-97090
	0.75	Green	50	JR-T-97095
			100	JR-T-97100
			200	JR-T-97105
			300	JR-T-97110

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CUSTOMER SUPPORT

Stainless Steel Tubing

- Variety of sizes for HPLC and GC applications
- Smooth internal surface
- Soft annealed OD for easy ferrule connections
- SS316 welded under inert gas

Tolerances: OD: ± 0.05 mm (.002"); ID: ± 0.05 mm (.002")

Pressure rating: min 315 bar (4600 psi)



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

		10 m	JR-T-626-00-M10
1/4"	4.65	per m	JR-T-628-00

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Accessories/miscellaneous

CUSTOMER SUPPORT

Electroformed nickel tubing

- Variety of sizes for HPLC and GC applications
- Extremely smooth internal surface
- Ideal for transfer lines, loops, and columns

This small bore tubing is made by electroplating nickel over a diamond drawn mandrel in a continuous process. When the mandrel is removed from the tubing, what's left is in an extremely inert and smooth interior surface – an incredible 1 - 2 microinch finish. The mirrorlike interior means that EFNI can be used instead of fused silica glass-lined tubing, or silica-lined tubing. The highly inactive, non-adsorptive surface makes EFNI tubing ideal for transfer lines, sample loops, or columns, or any application which requires minimum carryover potential.

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

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

Tolerances: OD: ± 0.025 mm (.001"); ID: ± 0.025 mm (.001")

Pressure rating: min 365 bar (5300 psi)

OD	ID (mm)	Qty/pkg	Product No.
1/32"	0.05	1 m	JR-TEFNI.502-M1
	0.10	1 m	JR-TEFNI.504-M1
	0.13	1 m	JR-TEFNI.505-M1
	0.25	3 m	JR-TEFNI.510-M3
		10 m	JR-TEFNI.510-M10
	0.38	3 m	JR-TEFNI.515-M3

	0.50	10 m	JR-TEFNI.515-M10
		3 m	JR-TEFNI.520-M3
		10 m	JR-TEFNI.520-M10
1/16"	0.75	3 m	JR-TEFNI130-M3
		10 m	JR-TEFNI130-M10
	1.00	3 m	JR-TEFNI140-M3
		10 m	JR-TEFNI140-M10

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High pressure fittings

- Nanovolume
- Stainless steel
- Polymeric

Low pressure fittings

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CUSTOMER SUPPORT

PFA Tubing

- Less permeable than PTFE
- Excellent chemical stability and mechanical strength

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

Further Reference

[Clean-Cut tubing cutter](#)

Tolerances:

1/16" OD: $\pm 0.05 \text{ mm}$ (.002"), OD and ID;

1/8" OD: $\pm 0.10 \text{ mm}$ (.004") OD and ID

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

				25 m	JR-T-4003-M25
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*Recommended maximum permanent working pressure.

VICI JOUR - Tubing for Chromatography

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FEP Tubing

- Recommended for ion chromatography
- Inert to most HPLC solvents

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

Further Reference

[Clean-Cut tubing cutter](#)

Tolerances:

1/16" OD: $\pm 0.05 \text{ mm}$ (.002"), OD and ID;

1/8" OD: $\pm 0.10 \text{ mm}$ (.004") OD and ID

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

				10 m	JR-T-6804-M10
				25 m	JR-T-6804-M25
1/4"	4.35	45	650	per m	JR-T-6809

*Recommended maximum permanent working pressure.

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ETFE Tubing

- Ideal for applications with chloride salts
- Higher burst pressure than PTFE

ETFE (EthylTriFluoroEthylene) tubing has some outstanding properties which make it particularly suitable for HPLC. It has a higher burst pressure than PTFE; 0.25 mm ID x 1/16" OD tubing will withstand up to 186 bar (2700 psi) using water as mobile phase. However, when ETFE is used with organic solvents it may swell, reducing the max. pressure to 70 bar (1000 psi). It is the ideal polymer for applications with chloride salts, which typically corrode stainless steel.

Further Reference

[Clean-Cut tubing cutter](#)

Tolerances:

1/16" OD: ± 0.05 mm (.002"), OD and ID;

1/8" OD: ± 0.10 mm (.004") OD and ID

OD	ID (mm)	bar*	psi*	Qty/pkg	Product No.
1/32"	0.25	152	2200	3 m	JR-T-084-M3
				10 m	JR-T-084-M10
				25 m	JR-T-084-M25
1/16"	0.17	200	2900	3 m	JR-T-078-M3
				10 m	JR-T-078-M10
				25 m	JR-T-078-M25
	0.25	186	2700	3 m	JR-T-080-M3
				10 m	JR-T-080-M10
				25 m	JR-T-080-M25
	0.50	152	2200	3 m	JR-T-082-M3

				10 m	JR-T-082-M10
				25 m	JR-T-082-M25
	0.75	117	1700	3 m	JR-T-083-M3
				10 m	JR-T-083-M10
				25 m	JR-T-083-M25
	1.00	83	1200	3 m	JR-T-085-M3
				10 m	JR-T-085-M10
				25 m	JR-T-085-M25
	1/8"	1.59	110	3 m	JR-T-086-M3
				10 m	JR-T-086-M10
				25 m	JR-T-086-M25

*Recommended maximum permanent working pressure.

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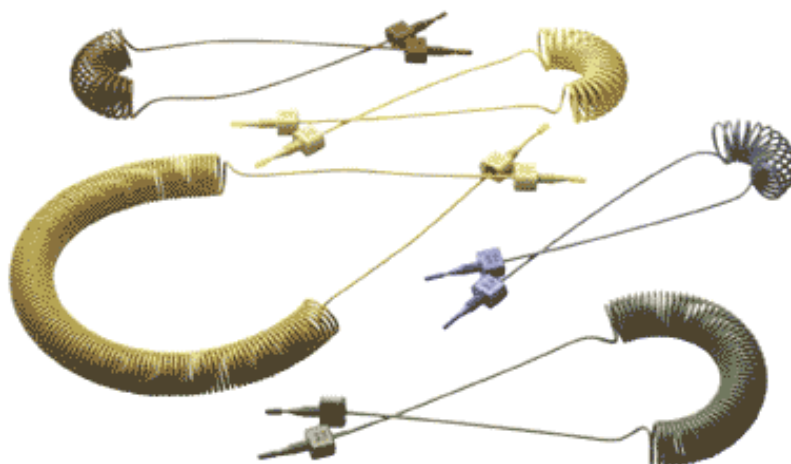
[Accessories/miscellaneous](#)

CUSTOMER SUPPORT

Thermo-Formed Polymeric Tubing

- A variety of polymers available
- Axial flexibility
- Telephone cables and customer-specific items

VICI offers thermoformed tubing in various of geometric shapes – straight tubing, spirals, or more complex forms. Just define the form and material on a drawing. Contact your [local distributor](#) or [VICI](#) for a quotation.



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CUSTOMER SUPPORT

Knitted PTFE Reaction Coils

- Tortuous flow path of optimal flow dynamic design
- Made of inert PTFE
- Minimized axial dispersion combined with efficient radial mixing
- 1/16" OD tubing in a variety of lengths and IDs

Preserved chromatographic peak shape

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

Note: To ensure a stable radial mixing within the KRC, a linear flow rate of 10 cm/sec or more is recommended.

Example application areas

KRC can be applied as a delay line in chromatographic separations. One example is the parallel coupling of a MS detector and a fraction collector in preparative separations (see [illustration](#)). The delay time induced by the KRC allows time for detection and therefore an intelligent decision between the fraction collection or waste without loss of chromatographic efficiency. The KRC reactors can also be used in post-column reaction detection in HPLC (see [illustration](#)). In this set-up the KRC also ensures thorough mixing between the column effluent and the added reagents.



1/16" Knitted PTFE Reaction Coils

Tolerances: ID and OD: ± 0.05 mm (.002")

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

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Tubing Clip - the LC Tubing Organizer

- Attaches 1/16" or 1/8" tubing to beakers, flasks, or bottles
- Stainless spring for long lifetime

Here is a convenient small device to help you keep your solvent line in the solvent. The Tubing Clip holds 1/16" and 1/8" polymer tubing precisely where you want it in a beaker, flask, or bottle, etc., up to 4 mm wall thickness. The stainless steel spring keeps your Tubing Clip working for a long period of time.



Description	Product No.
Tubing clip	JR-9001

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Stainless Steel Tubing Cutter (for non-critical connections)

- For 1/16" and 1/8" SS tubing
- Makes a smooth, uniform cut
- Minimal deburring and/or reaming required
- Easily replaceable cutting wheel



This is the ideal tool for cutting 1/16" and 1/8" stainless steel tubing with an ID >0.5 mm for non-critical connections. The smooth, uniform cuts require little deburring or reaming. The easily replaced cutting wheel scores the tubing.

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

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CUSTOMER SUPPORT

VICI JOUR - Tubing for Chromatography

Stainless Steel Tubing Pliers (for non-critical connections)

- For easy cutting 1/16" OD SS tubing off a coil
- Reaches "hard to get" places in an HPLC system



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

Description	Product No.
Tubing pliers metal tubing	JR-796

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25, 26	SPECS Material FEP	SPECS Material PTFE
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53	Stainless Steel Tees and Crosses	Stainless Steel Crosses
71	SPECS Material Wetted parts: PEEK, PTFE Body: PEEK Fittings: PPS Ferrule: ETFE	SPECS Material Wetted parts: PEEK, PTFE Body: PEEK Fittings: PPS Ferrule: CTFE
	Spare parts	
	JR-55071-10 Nut, PPS, flangeless, ... For description of the nut see page 59.	JR-55051-10 Nut, PPS, for collapsible ferrules, ...
73	Low-Pressure Polypropylene Adapters	
	JR-070225-10 Adapter, PP, male Luer to 1/4"-28 female	JR-070225-10 Adapter, PP, male Luer to 1/4"-28 male
75	Last Drop Mobile Phase Filters	
	JR-9000-0522H Filter, PTFE, hydrophobic, Last Drop, 10 µm, stepped tubing connector JR-9000-0522HF Filter, PTFE, hydrophobic, Last Drop, 10 µm, fitting tubing connector	JR-9000-0522H Filter, PE, hydrophobic, Last Drop, 10 µm stepped tubing connector JR-9000-0522HF Filter, PE, hydrophobic, Last Drop, 10 µm fitting tubing connector

Errata

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Last Drop Filter/Spargers

JR-9000-0604H Filter/Sparger, PTFE, hydrophobic, Last Drop 10 μ m filter, 10 μ m sparger

JR-9000-0604H Filter/Sparger, PE, hydrophobic, Last Drop 10 μ m filter, 10 μ m sparger

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Note: All VICI (Safety) Caps are delivered with Nuts and Ferrules. Filters have to be ordered separately.

103/104

SPECS

Material

PEEK, black and natural Titanium

SPECS

Material

PEEK, black and natural

103

PEEK Columns 2.1 mm ID

... with only 20% of the sample. These columns are delivered with 2 μ m titanium frits.

... with only 20% of the sample.

PEEK Columns 4.0 mm ID

... and ion chromatography. These columns are delivered with 2 μ m titanium-PEEK encased frits.

... and ion chromatography.

Note: All our columns are delivered without frits. Frits can be purchased separately, see "Spare Parts" (page 105).

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SPECS

Dead volume

Dead Volume 0.25 μ m (theoretical)

SPECS

Dead volume

Dead Volume 0.25 μ l (theoretical)

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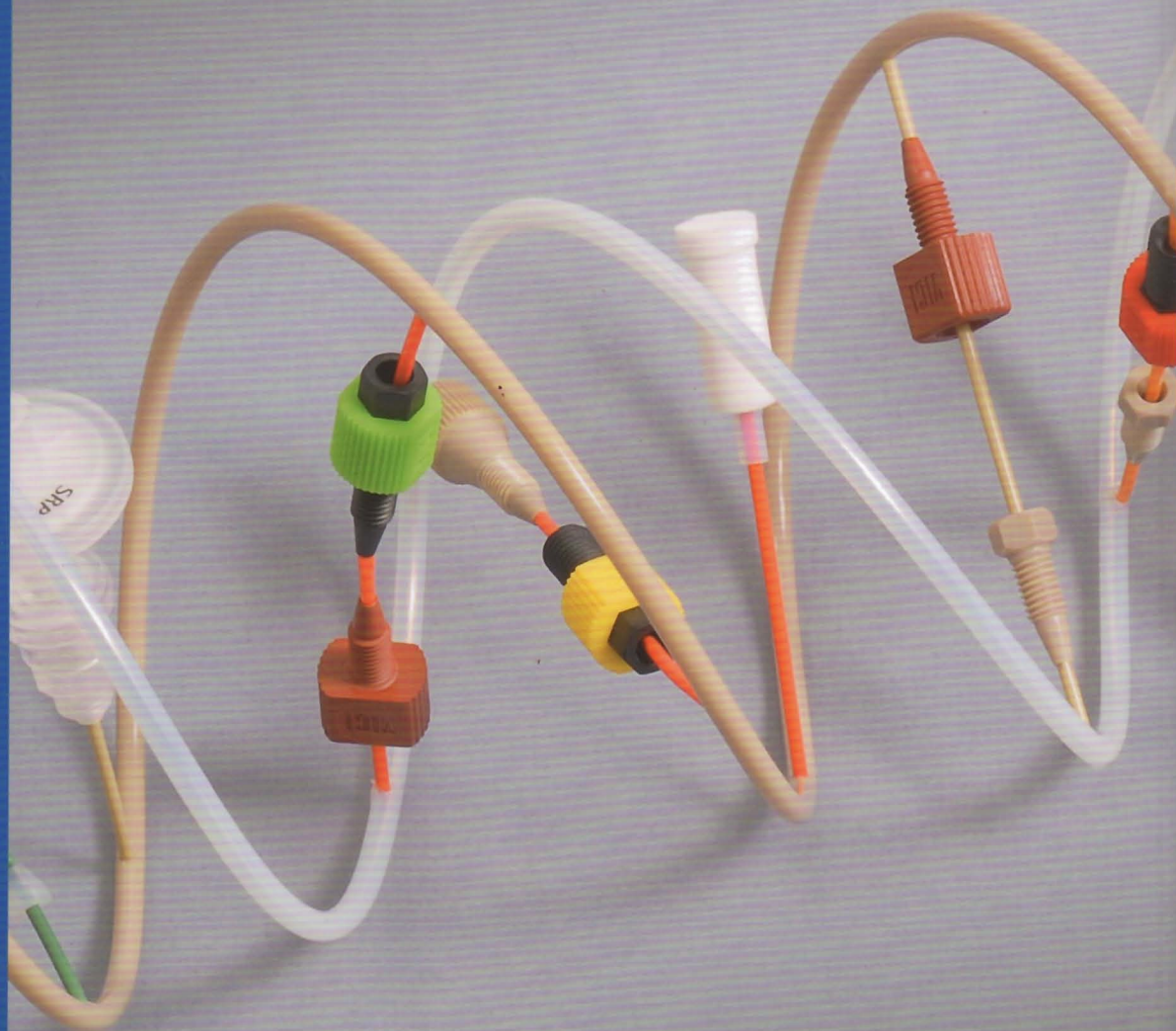
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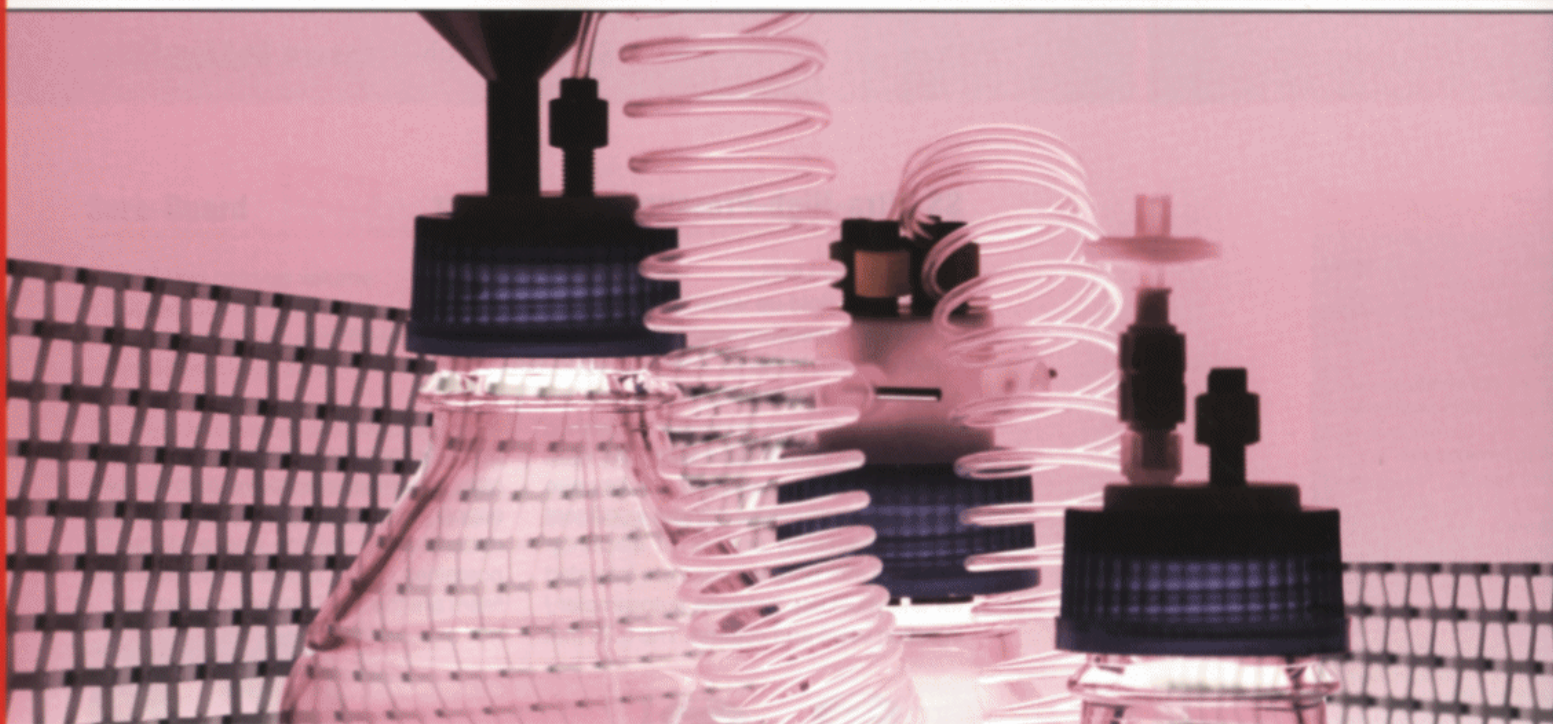
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VICI Safety Products

NEW

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

The benefits of the new VICI Jour Safety products are:

- **Saving costs of solvents**
- **Avoiding hazardous air in the laboratories**
- **Increasing reproducibility of chromatographic analyses**

For that reason VICI Jour developed:

- The VICI Safety Exhaust Filter
- The VICI Safety Air Inlet Filter
- The VICI Safety Caps



VICI Safety Exhaust Filter

VICI Safety Exhaust Filter **NEW**

CLEAN LAB AIR WITH THE VICI JOUR SAFETY EXHAUST FILTER

– Universal 1/4"-28 UNF thread

The VICI Safety Exhaust filter is the centre of our Safety program.

The VICI Safety Exhaust Filter is a very competitively priced filter which can be placed on the waste bottle of a HPLC system. The specially treated absorbent filters out nearly all organic solvent vapor evaporating out of the waste solution.

The absorbent has an excellent capacity, is reflecting in a long lifetime of up to 8 months.

The VICI Safety Exhaust Filter can be used either with one of the VICI caps or with one of the VICI Safety Caps. The filter is screwed easily into one of the ports in the insert. The EPDM rubber O-ring seals between the filter and the insert.

Function:

As the bottle fills with waste liquids (e.g. a HPLC-system) the pressure inside will increase. To compensate for this pressure difference, air and solvent vapor will pass through the filter. The absorbent in the filter will remove the volatile vapor preventing it reaching the laboratory air.

Without the VICI Safety Exhaust Filter, the solvent vapor would come into the ambient air.

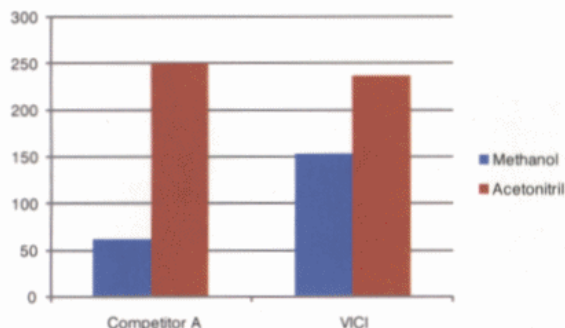
Solvent vapors in the ambient air can adversely affect the health of the lab-workers.

SPECS

Materials

Polyacetal (POM)
(housing)
Polyethylene (frits)
Absorbent (Carbon,
special treated)
NBR NT 70.11 (O-ring)

Filter capacity mg/g absorbent

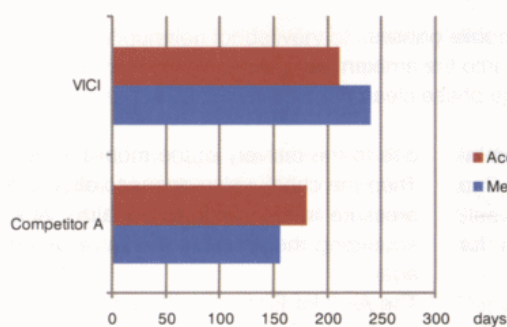


Capacity of absorbent of different suppliers for most common used organic solvents in HPLC.

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VICI Safety Exhaust Filter

Filter life-time* (d)



*calculated, based on results of our tests

The VICI Safety Exhaust Filter can be used with all VICI and all VICI Safety Caps.

Safety Exhaust Filter

Part No.	Description
JR-S-20002	Safety Exhaust Filter

Adapter

Part No.	Description
JR-S-40004	Adapter connecting JR-S-20002 in SCAT® Caps



VICI Safety Air Inlet Filter

VICI Safety Air Inlet Filter

NEW

- Stabilize the composition of your mobile phases
- Prevent organic solvent vaporizing into the ambient air
- With 0.2 μm filter to keep the mobile phase clean

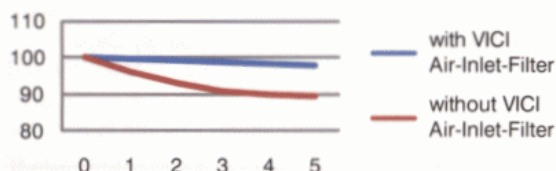
The VICI Air Inlet Filter is used in combination with a VICI Safety Cap or VICI Cap used for solvent delivery. A stable mobile phase is necessary for stable and reproducible analysis.

Function:

In operation the check valve remains closed until a certain vacuum is reached

due to the delivery of the mobile phase. Then the check valve opens to allow the pressure in the bottle to equalize. After equalizing the pressure the valve closes again.

The Air Inlet Filter is delivered with a 0.2 μm filter to prevent bacterial contamination of the mobile phase.



Changing of the composition of a Standard HPLC mobile phase



To guarantee correct operation of the checkvalve it is recommended that the Safety Air Inlet Filter is replaced every 7 months.

Safety Air Inlet Filter

Part No.	Description
JR-S-20003	Safety Air Inlet Filter, complete

Safety Outlet Filter

The VICI Safety Outlet Filter is dedicated for regulating the pressure during helium sparging.

SPECS

Special Info

The Air Inlet Filter is not suitable when helium sparging is used

"Re-gassing" is prevented by the PFA tubing which is less permeable as PTFE

If you are not satisfied with the permeability of PFA tubing, we recommend the use of Impermeable tubing (see page 18)



SPECS

Material

Cap: Polypropylene
 Pouring Ring:
 Polypropylene
 Insert: PTFE
 Nuts: PPS
 Ferrules: ETFE
 Tubing: PFA
 Mobile phase filter: PE
 Bottles: borosilicate 3.3,
 safety coated
 Stopcock-rotor: CTFE

Threads

1/4"-28

Pressure rating

5 bar (73 psi)

VICI Safety Caps **NEW**

- Ideal configuration for delivery of mobile phase or collection of waste LC solutions
- Built-in stopcocks for easy interruption of the fluid-stream when removing tubing
- Three different caps available

The VICI Safety Caps are delivered with stopcocks to easily cut off the liquid stream and with colored fittings for easy identification of the different streams.

The VICI Safety Caps contain all the parts necessary to configure your LC solvent system and are compatible with all standard GL45 thread bottles. The PTFE insert has 2, 3, or 4 ports 1/4"-28.

The bore size in the insert is 1.3 mm, so a 1/16" tubing can be mount easily.

All the nuts and ferrules (1 set of 1/16" and up to 3 sets of 1/8") and Color-Sleeve-Fingertight adapters are delivered with the Safety Cap.

The Safety Cap Kits are delivered with a Safety Bottle (1 or 2 liter), tubing (PFA for less re-gassing of the mobile phase) and mobile phase filters (No-Met 5 µm PE), so only 1 part number has to be ordered.



VICI Safety Caps

Part No.	Description
JR-S-11011	VICI Safety Cap GL45, 2 ports, complete
JR-S-11012	VICI Safety Cap GL45, 3 ports, complete
JR-S-11013	VICI Safety Cap GL45, 4 ports, complete



VICI Safety Cap Kits

Part No.	Description
JR-S-11111	VICI Safety Cap GL45, 2 ports, incl. 1L Safety Coated Bottle
JR-S-11112	VICI Safety Cap GL45, 3 ports, incl. 1L Safety Coated Bottle
JR-S-11113	VICI Safety Cap GL45, 4 ports, incl. 1L Safety Coated Bottle
JR-S-11211	VICI Safety Cap GL45, 2 ports, incl. 2L Safety Coated Bottle
JR-S-11212	VICI Safety Cap GL45, 3 ports, incl. 2L Safety Coated Bottle
JR-S-11213	VICI Safety Cap GL45, 4 ports, incl. 2L Safety Coated Bottle



Spare Parts

Part No.	Description
JR-55070-10	Nut, PPS, flangeless 1/16", 10 pcs
JR-55071-10	Nut, PPS, flangeless 1/8", 10 pcs
JR-041-10	Ferrule, ETFE, 1/16", 10 pcs
JR-051-10	Ferrule, ETFE, 1/8", 10 pcs
JR-T-4003-M3	PFA Tubing, 1/8" x 1/16", 3m
JR-9000-0005	Bottle, glass, safety-coated 1L with solid cap
JR-9000-0010	Bottle, glass, safety-coated 2L with solid cap
JR-32174	Filter, PE, Economy No-Met 5 µm, 1/8"
JR-409	Plug, PEEK, 1/4"-28

For Color-Sleeve-Fingertight adapter see page 61

VICI Caps**VICI Caps****NEW**

Based on the very popular VICI Cap, VICI now offers also caps with 2 and 4 ports. The VICI Caps Kits are delivered with a Safety Bottle (1 or 2 liter), tubing (PFA for

less re-gassing of the mobile phase) and mobile phase filters (No-Met, 5 μ m PE), so only 1 part number has to be ordered.

**SPECS****Material**

Cap: Polypropylene
Pouring Ring: Polypropylene
Insert: PTFE
Nuts: PPS
Ferrules: ETFE
Tubing: PFA
Mobile phase filter: PE
Bottles: borosilicate 3.3, safety coated

Threads

1/4"-28

VICI Caps

Part No.	Description
JR-S-11001	VICI Cap GL45, 2 ports, complete
JR-S-11002	VICI Cap GL45, 3 ports, complete
JR-S-11003	VICI Cap GL45, 4 ports, complete

VICI Cap Kits

Part No.	Description
JR-S-11101	VICI Cap GL45, 2 ports, incl. 1L Safety Coated Bottle
JR-S-11102	VICI Cap GL45, 3 ports, incl. 1L Safety Coated Bottle
JR-S-11103	VICI Cap GL45, 4 ports, incl. 1L Safety Coated Bottle
JR-S-11201	VICI Cap GL45, 2 ports, incl. 2L Safety Coated Bottle
JR-S-11202	VICI Cap GL45, 3 ports, incl. 2L Safety Coated Bottle
JR-S-11203	VICI Cap GL45, 4 ports, incl. 2L Safety Coated Bottle

Spare Parts

Part No.	Description
JR-55070-10	Nut, PPS, flangeless 1/16", 10 pcs
JR-55071-10	Nut, PPS, flangeless 1/8", 10 pcs
JR-041-10	Ferrule, ETFE, 1/16", 10 pcs
JR-051-10	Ferrule, ETFE, 1/8", 10 pcs
JR-T4003-M3	PFA Tubing, 1/8" x 1/16", 3m
JR-9000-0005	Bottle, glass, safety-coated 1L with solid cap
JR-9000-0010	Bottle, glass, safety-coated 2L with solid cap
JR-32174	Filter, PE, Economy No-Met 5 μ m, 1/8"
JR-409	Plug, PEEK, 1/4"-28

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Safety-Coated Glass Bottles

SPECS

Material

Bottle:
Borosilicate 3.3 glass
Cap: Polypropylene
Pouring Ring:
Polypropylene

Pressure Rating

0.8 bar (11.6 psi)

Special Info

The Bottles are not suitable to be stressed with pressures above 0.8 bar (11.6 psi), but only for continuous helium sparging

The safety coating is not intended to replace safe working conditions and precautions in laboratories

Safety-Coated Glass Bottles

- Special design for helium sparging of LC mobile phases
- Safety coating to minimize risk of injury

VICI Jour Safety-Coated Glass Bottles are available in 0.25, 0.5, 1 and 2 L volume sizes.

These glass bottles with GL45 screw threading are made of chemical resistant Borosilicate 3.3 and coated on the outside with a layer of sturdy polymer. The chances of breaking the bottle, when dropping it, will decrease. 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 can't be autoclaved.



Safety-Coated Glass Bottles

Part No.	Description
JR-9000-0011	Bottle, Glass, safety-coated, 0.25 L with solid cap
JR-9000-0012	Bottle, Glass, safety-coated, 0.5 L with solid cap
JR-9000-0005	Bottle, Glass, safety-coated, 1 L with solid cap
JR-9000-0010	Bottle, Glass, safety-coated, 2 L with solid cap

NEW

Eco-Cap

Eco-Cap

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

The Eco-Cap is made of ETFE insert with polyethylene collar and has three holes for tubing insertion.

The Eco-Cap has no threading on the inside of the tubing ports – tubing can easily be inserted.



Eco-Cap

Part No.	Description
JR-9000-0007	Eco-Cap, GL45, incl. 1 x male luer plug
JR-9000-0013	Eco-Cap Kit, incl. 1L Safety Coated Bottle
JR-9000-0014	Eco-Cap Kit, incl. 2L Safety Coated Bottle

Spare parts

Part No.	Description	Qty/pkg
JR-070350-10	Plug, PP, male luer	10

For polymeric tubing see pages 16–27.

SPECS

Material

Screw collar: Polyethylene
Pouring ring: Polypropylene
Eco-Cap insert: ETFE
O-Rings: EPDM
Plugs: PEEK
Luer Plugs: Polypropylene
Others: see charts

Dimensions

For GL45 or S40 threads
(see chart)

Bores

Eco-Cap: 2 x 1/8", 1 x luer

Special Info

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 (see page 18)

SPECS**Material (wetted parts)**

Tubing: PFA

Filter: PE

Ferrules: ETFE

Dimension

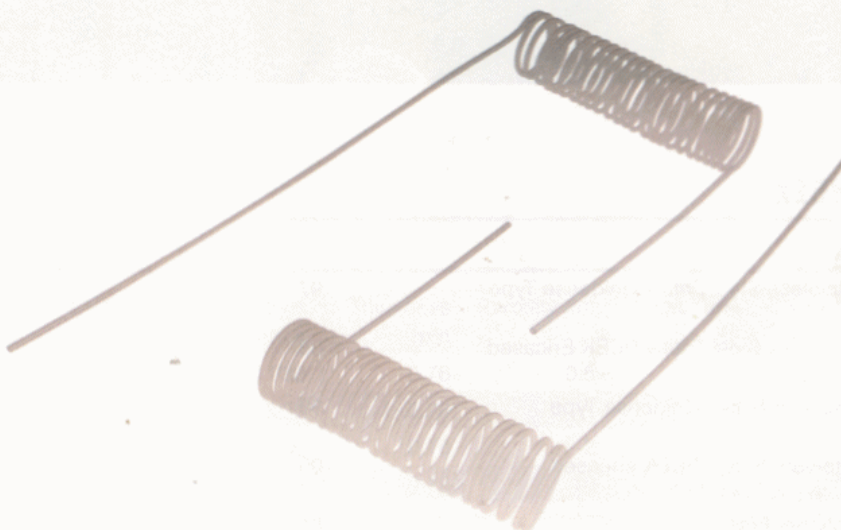
1/8" Tubing OD

Solviflex

- Be 'mobile' with mobile phase bottles
- Ideal for use together with the VICI Safety Caps or VICI Caps
- Customized versions on request

The Solviflex has a flexible telephone cable like PFA tubing which expands and contracts and consequently gives the flexibility to move mobile phase bottles on the bench. All Solviflex assemblies consist of a biocompatible mobile phase

filter and all the required parts to connect it to any 1/4"-28 port.

**Solviflex**

Part No.	Description
JR-6120-50030	Solviflex, assembly without cap