



CATALOG 20 INT

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WELCOME TO VICI JOUR



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-	VEX IS increational Union Visions
	Marian Constant Property
	a limits brogener brow

VICI AG INTERNATIONAL

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

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

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

Managem

9001 / 150

CERTIFICATION

Please note: All Jour pieces are not according to TSE-BSE regulations.



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

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

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



NEW FROM VICI JOUR

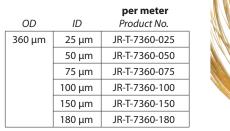
TUBING

VICI offers new FS tubing, new SS Precut tubing for Micro LC, new tubing packaging sizes, and new tubing dimensions.

NEW Untreated fused silica (FS) capillaries PAGE 18

Our NEW FS capillaries are manufactured from fused silica coated with a layer of polyimide to make them more flexible and robust. These chemically inert capillaries, stable at temperatures up to 350°C, are suitable for Micro and Nano LC applications involving organic solvents and other fluids in pH ranges from 0 to 10.

Sold by the meter.





NEW Polymeric tubing – new sizes

PAGES 9-13, 15-16

For our full lines of PEEK, ETFE, PFA, FEP, and PTFE tubing, see pages noted above.

			1.5 m	3 m	10 m	15 m	25 m
	OD	ID (mm)	Product No.	Product No.	Product No.	Product No.	Product No.
PEEK	1/32"	0.15	JR-T-5706-M1.5	JR-T-5706-M3	JR-T-5706-M10	_	_
ETFE	1/8"	2.40	JR-T-089-M1.5	JR-T-089-M3	JR-T-089-M10	JR-T-089-M15	JR-T-089-M25
	6.4 mm	4.8	—	JR-T-090-M3	—	—	_

	OD	ID (mm)	per meter Product No.
PEEK	1/16"	0.064	JR-T-5998-0005
PFA	1/4"	3.97	JR-T-4006
		4.80	JR-T-4008
FEP,	4 mm	3.00	JR-T-6860
natural	1/4"	3.96	JR-T-6840
		3/16"	JR-T-6841
	5/16"	1/4"	JR-T-6650
PTFE,	1/8"	1.00 mm	JR-T-6820
natural	6.00 mm	4.00 mm	JR-T-4042
	6.35 mm	4.76 mm	JR-T-6810
	8.00 mm	6.00 mm	JR-T-4050
	12.7 mm	9.53 mm	JR-T-4043





STAINLESS STEEL TUBING

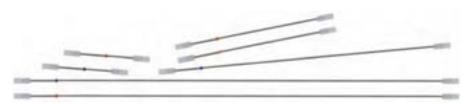
VICI is now able to offer smaller diameters in 360 micron, 1/32", and 1/16" OD stainless tubing.

NEW S	stainles	s tubing – st	e UHPLC	PAGE 19	
		1.5 m	3 m	10 m	
OD	ID (mm)	Product No.	Product No.	Product No.	
1/16"	0.10	JR-T-625-03-M1.5	JR-T-625-03-M3	JR-T-625-03-M10	
					•

NEW Stainless tubing – premium grade UHPLC PAGE 19

For Micro and Nano LC

		per meter
OD	ID (μm)	Product No.
360 µm	75	JR-T-623-03
	150	JR-T-623-06



NEW Pre-cut tubing for Micro LC

PAGE 20

1/32" OD tubing with IDs of 50 and 75 micron is only offered in precut lengths. Each precut piece is electrolytically cut and steam cleaned, ready for use in any (U)HPLC System.

			50 mm	100 mm	130 mm
OD	ID (mm)	Color	Product No.	Product No.	Product No.
1/32"	0.050	Blue	JR-T-91050	JR-T-91100	JR-T-91130
	0.075	Black	JR-T-92050	JR-T-92100	JR-T-92130
			180 mm	200 mm	300 mm
OD	ID (mm)	Color	180 mm Product No.	200 mm Product No.	300 mm Product No.
OD 1/32"	ID (mm) 0.050	<i>Color</i> Blue			

NEW Pre-cut tubing for standard HPLC

PAGE **21**

VICI added SS pre-cut lengths of 130 mm and 180 mm for 1/16" OD tubing and for pre-cut flexible stainless steel tubing. Lengths of 130 mm and 180 mm are commonly used for (U)HPLC systems.

			130 mm	180 mm
OD	ID (mm)	Color	Product No.	Product No.
1/16"	0.13	Red	JR-T-97012	JR-T-97013
	0.18	Yellow	JR-T-97032	JR-T-97033
	0.25	Blue	JR-T-97057	JR-T-97058
	0.50	Orange	JR-T-97082	JR-T-97083
	0.75	Green	JR-T-97102	JR-T-97103

NEW PRODUCTS

FITTINGS

NEW PEEK one-piece fingertight fittings 10-32

- Reinforced glass fiber (GF) PEEK.
- One-piece no ferrule required
- Fingertight up to 350 bar (5000 psi)
- Biocompatible

Sold in packages of 5.

		Material			Product No.
(Package/5)	Standard	Reinforced GF PEEK	9.15 mm	20.8 mm	JR-5513-5
	Narrow hexhead/ fingertight	Reinforced GF PEEK	1/4"	28.1 mm	JR-5518-5

NEW High pressure PEEK-HT[™] one-piece fittings

VICI fittings made from PEEK[™] HT are rated up to 500 bar as fingertights and up to 1000 bar when tightened with a tool. The superior material also provides the benefit of longer life time; that is, the fittings can be tightened/ loosened more often.

Sold in packages of 5.

(Package/5)

Product No.

JR-55031-5



5/16"	0	
	12.1mm	22.0 mm

PAGE **26**

VICI fingertight fittings made from PVDF are rated up to 180 bar. They are applicable up to medium pressures; using polymeric tubing they prevent constriction of tubing as with PEEK fingertight fittings. Sold in packages of 5.

(Package/5)	PVDF	Translucent white	JR-55020-PVDF-5
		(marked by	- instanting of the second
			- A STATUS
			Party and Party

NEW Low pressure polypropylene adapters

VICI offers two additional low pressure PP adapters with 1/4-28 bottom sealing thread, to male Luer lock and to barbed 1/16".

	Inlet		Outlet		Product No.
(Sold individually)	Male	1/4-28 UNF BST	Barbed	1/16"	JR-075012
(Package/10)	Male	Luer	Male	1/4-28 UNF BST	JR-070226-10

es of 5. DF Translucent white JR-55020-PVD

NEW Medium pressure PVDF one-piece fingertight fittings

PAGE **54**

PAGE **27**

PAGE 26

FILTERS

HIGH PRESSURE

High pressure precolumn and inline filters now include 0.2 micron filter elements. These filters prevent any damage to chromatographic columns, enabling safe, robust chromatographic separations.

NEW Stainless steel precolumn filter MICRO LC PAGE 64

Bore size	Pore size	Internal volume	Product No.	
0.13/0.15 mm	0.2 μm	0.66 μL	JR-69230-02	46.5 mm

NEW Stainless steel in-line filter MICRO LC PAGE 65

Bore size	Pore size	Internal volume	Product No.	
0.25 mm	0.2 µm	0.3 μL	JR-68230-02	9.0 mm

LOW PRESSURE

For low pressure, a newly designed all-stainless mobile phase filter comes with a stainless stepped connector for direct coupling to mobile phase tubing. The filter is available in three different porosities – 2, 10, and 20 micron.

NEW Stainless steel mobile phase filter/helium sparger

Fitting type	Tubing ID/ pipe size	Pore size	Product No.	
Stepped	1/16",	2 µm	JR-8000-0495-2	9.5 mm
	3/32",	10 µm	JR-8000-0495-10	5.2 mm
	and 3.76 mm	20 µm	JR-8000-0495-20	45.0 mm

LOW PRESSURE

PAGE 61

Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl Safety filters and caps

NEW PRODUCTS

SAFETY

Safety exhaust filters with NEW breakthrough detectors PAGES 68-69



VICI offers exhaust filters with new breakthrough detectors. The newly-designed total organic vapor (TOV) breakthrough detector allows additional detection of aliphatic hydrocarbons (i.e. hexane) and aromatic hydrocarbons (i.e. benzene).

NEW Replacement exhaust filter kits PAGE 68

Includes three exhaust filters, three breakthrough detectors (if ordered), and a carrying case.

	Description		Product No.
	Exhaust filter kit		JR-S-35
	Kit includes:	Qty	Product No.
	Exhaust filters with breakthrough detectors	3	JR-S-20005
	Carrying case	1	JR-S-35L
-	Description		Product No.
	Exhaust filter kit without dete	JR-S-36	
	Kit includes:	Qty	Product No.

Kit includes:	Qty	Product No.
Exhaust filters	3	JR-S-20002
without breakthrough detectors		
Carrying case	1	JR-S-35L

Exhaust filter with NEW detector

VICI CAP KITS

PAGE **74**

GL45 THREADS

HPLC systems use up to four different mobile phases. We offer two safety cap kits for use with gradient (up to quaternary) HPLC systems.

NEW VICI cap kit

		1
-	_	
1	**	-

Description		Product No.
VICI cap kit		JR-S-31
Kit includes:	Qty	Product No.
VICI caps, GL45, three ports	4	JR-S-11002
Air inlet valves with 4 mm filters	4	JR-S-20003
PP plugs	4	JR-201999
Carrying case	1	JR-S-31

NEW VICI cap kit



Description		Product No.
VICI cap kit		JR-S-32
Kit includes:	Qty	Product No.
VICI caps, GL45, two ports	3	JR-S-11001
VICI cap, GL45, three ports	1	JR-S-11002
Air inlet valves with 4 mm filters	4	JR-S-20003
PP plug	1	JR-201999
Carrying case	1	JR-S-31L

MULTI CAPS

PAGES 80-82

VICI's **NEW** multi caps can be used either for mobile phase or for waste bottles/canisters. Thread sizes include GL38, GL45, DIN50, S51, B53, DIN60, S61, GLS80, and B83.

All multi caps come with a set of angled PA barbed adapters for connecting tubing with 4mm, 6mm and 8mm ID, as well as a PA plug for the M10x1 bore and PP plugs for the 1/4-28 bores.



PEEK sample loops and accessories

NEW PRODUCTS

PAGE **95**

Product No.

PEEK SAMPLE LOOPS

types of valves – Cheminert, Valco, and Rheodyne. **NEW For Valco valves**

Fit all 1/16" Valco W and UW type

NEW For Cheminert valves

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

Sample size	Pressure *		Product No.
	bar	psi	
1 µl	480	7000	JR-SLC-85-1
2 µl	460	6700	JR-SLC-85-2
3 µl	460	6700	JR-SLC-85-3
4 µl	460	6700	JR-SLC-85-4

Sample size Pressure *

valves.

PEEK sample loops with volumes of 1, 2, 3 and 4 microliters are available for all

	bar	psi	
1 µl	480	7000	JR-SLV-75-1
2 µl	460	6700	JR-SLV-75-2
3 µl	460	6700	JR-SLV-75-3
4 µl	460	6700	JR-SLV-75-4



NEW For Rheodyne valves

Fit all Rheodyne metal and metal-free valves.

Sample size	Pressure *		Product No.
	bar	psi	
1 µl	480	7000	JR-SLR-2190
2 µl	460	6700	JR-SLR-2191
3 µl	460	6700	JR-SLR-2192
4 µl	460	6700	JR-SLR-2193



ACCESSORIES

NEW HPLC Backpressure regulators

PAGE 102

Our newest backpressure regulator is made from stainless steel, rated up to 300 bar (4200 psi). It can be used for preparative and SFC applications.

Range		ange	Housing	Product No.
Stainless steel	90-300 bar	1300-4200 psi	SS	JR-BPR3

NEW Utility box

PAGE 105

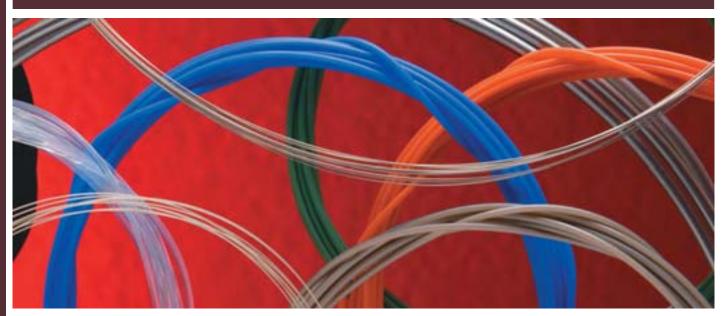
This empty toolbox can be equipped by each individual. Utility boxes help store all the chromatographic accessories in the lab; moreover, they can be easily moved to wherever the chromatographic system is located.

Product No. Utility box JR-35U





tubing



METAL AND POLYMERIC

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

TUBING INDEX

PEEK TUBING

- Natural PEEK.....page 9 Available in ODs from 360 micron to 1/4", in custom lengths (priced per meter) and packages of 1.5m, 3m, and 10m
- Striped color-coded PEEK 10 A stripe is added to the outside of the tubing, so dye never contacts the fluid stream.

OTHER POLYMERIC TUBING

PFA
ETFE
PTFE
Solid color-coded 14
Natural 15
FEP16
Thermo-formed polymeric tubing 17
Impermeable tubing 17
FEP coated with PVDF
combines the chemical
resistance of FEP with the tight,
impermeable structure of PVDF.
STAINIESS STEEL TIIRING

STAINLESS STEEL TUBING

Bulk SS tubing	
Premium grade, seamless	19
Standard grade, welded seam ?	19
Pre-cut SS tubing	
Standard	20
Flexible	21

DISCLAIMER

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

SEE ALSO

SolviFlex coiled tubing84

Tubing	tools	and
	vias	

accessories
Easy-Flange kit99
Easy-Flange combi kit . 99
PEEK tubing elbows100
Tubing cutters for:
Polymeric tubing
Clean-cut 100
Guillotine100
Stainless tubing
Wheel type101
Plier type101
Tubing clip – the LC
tubing organizer100

PEEK tubing • Natural



PEEK TUBING TOLERANCES

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

Tubing OD	OD and ID (±)
1/32"	0.025 mm
1/16"	0.025 mm
1/8"	0.075 mm
1/4"	0.100 mm

TECH TIP

- A clean burr-free perpendicular cut can be achieved with our Clean-cut cutter for polymeric tubing .. 100
- To bend PEEK tubing at the optimal radius, use our tubing elbows . 100

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ADOUL PEEK*
Chemical resistance
PEEK 110-112
PEEK at higher
temperatures 110
Maximum working
pressure 108
Tubing ID chart:
volume per length 107
Tubing tolerances 109

SEE ALSO

clean-cut polymenc
tubing cutter100
Easy-Flange kit99
PEEK fittings
High pressure24-35
Low pressure . 48, 50-53
PEEK tubing elbows 100

NATURAL PEEK TUBING

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



NATURAL PEEK TUBING shown with ODs of 1/8", 1/16", 1/32", and 360 μm

SPECIFICATIONS

MAXIMUM RECOMMENDED WORKING TEMPERATURE 100°C (continuous) for 1/16" OD tubing with ID up to 0.75 mm MAX WORKING PRESSURES AT ROOM TEMPERATURE See page 108

OPTIONS

CONVERSIONS

0.013 mm = .0005"

0.025 mm = .001"

0.064 mm = .0025" 0.075 mm = .003"

0.100 mm = .004"

0.13 mm = .005"

0.15 mm = .006"

0.38 mm = .015"

0.75 mm = .03"

 $1.59 \,\mathrm{mm} = 1/16"$

2.00 mm = .08"

3.17 mm = 1/8"

1.5 m = 4.92'

3.0 m = 9.84' 10.0 m = 32.8'

 $75 \,\mu m = .003"$

Contact your distributor for more information about:

- Longer bulk tubing lengths
- Customized ODs and IDs

PEEK tubing – natural

			1.5 m	3 m	10 m
	OD	ID (mm)	Product No.	Product No.	Product No.
ſ	1/32"	0.13	JR-T-5993-M1.5	JR-T-5993-M3	JR-T-5993-M10
		0.15	JR-T-5706-M1.5 NEW	JR-T-5706-M3 NEW	JR-T-5706-M10 NEW
	1/8"	0.75		JR-T-60041-M3	JR-T-60041-M10
		1.59		JR-T-6004-M3	JR-T-6004-M10
		2.00		JR-T-60042-M3	JR-T-60042-M10

		per meter	
OD	ID (mm)	Product No.	
1/16"	0.064	JR-T-5998-0005 NEW	Tubing tolerance: OD \pm 0.037 mm; ID \pm 0.0013 mm
	0.38	JR-T-62015	
1/4"	3.17	JR-T-6006	

WHICH PEEK TUBING FOR WHICH APPLICATION?

Application	Tubing
Standard HPLC*	1/16" OD x
	0.25 mm ID
High pressure semi-prep LC*	1/8" OD
Agilent 1100 LC systems**	1/32"
Most capillary systems	360 µm

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

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

TECH TIP: STRAIGHTENING PEEK TUBING

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



STRIPED COLOR-CODED PEEK TUBING

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

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

1/32" 0	D		F	PRE-CUT LENGTHS
		1 m	<i>NEW</i> 1.5 m	3 m
ID (mm)	Color	Product No.	Product No.	Product No.
0.050	Orange	JR-T-5702-M1	JR-T-5702-M1.5	JR-T-5702-M3
0.064	Red	JR-T-5764-M1	JR-T-5764-M1.5	JR-T-5764-M3
0.075	Green	JR-T-5703-M1	JR-T-5703-M1.5	JR-T-5703-M3
0.10	Black	JR-T-5704-M1	JR-T-5704-M1.5	JR-T-5704-M3
0.13	Red	JR-T-5705-M1	JR-T-5705-M1.5	JR-T-5705-M3
0.18	Yellow	JR-T-5707-M1	JR-T-5707-M1.5	JR-T-5707-M3
0.20	Orange	JR-T-5708-M1	JR-T-5708-M1.5	JR-T-5708-M3
0.25	Blue	JR-T-5710-M1	JR-T-5710-M1.5	JR-T-5710-M3
0.50	Orange	JR-T-5720-M1	JR-T-5720-M1.5	JR-T-5720-M3



SPECIFICATIONS

MAXIMUM RECOMMENDED WORKING TEMPERATURE 100°C (continuous) for 1/16" OD tubing with ID up to 0.75 mm MAX WORKING PRESSURES AT ROOM TEMPERATURE See page 108 **TUBING TOLERANCES**

Tubing OD	OD and ID (±)
1/32"	0.025 mm
1/16"	0.025 mm

OPTIONS

PRE-CUT LENGTHS

Contact your distributor or VICI about:

- Longer bulk tubing
- lengths • Customized ODs and IDs

1/16" OD

		NEW				NEW	
		1.5 m	3 m	5 m	10 m	15 m	25 m
ID (mm)	Color	Product No.	Product No.	Product No.	Product No.	Product No.	Product No.
0.050	Orange	JR-T-5802-M1.5	JR-T-5802-M3	JR-T-5802-M5	JR-T-5802-M10	JR-T-5802-M15	JR-T-5802-M25
0.075	Green	JR-T-5803-M1.5	JR-T-5803-M3	JR-T-5803-M5	JR-T-5803-M10	JR-T-5803-M15	JR-T-5803-M25
0.10	Black	JR-T-5804-M1.5	JR-T-5804-M3	JR-T-5804-M5	JR-T-5804-M10	JR-T-5804-M15	JR-T-5804-M25
0.13	Red	JR-T-5999-M1.5	JR-T-5999-M3	JR-T-5999-M5	JR-T-5999-M10	JR-T-5999-M15	JR-T-5999-M25
0.18	Yellow	JR-T-6000-M1.5	JR-T-6000-M3	JR-T-6000-M5	JR-T-6000-M10	JR-T-6000-M15	JR-T-6000-M25
0.25	Blue	JR-T-6001-M1.5	JR-T-6001-M3	JR-T-6001-M5	JR-T-6001-M10	JR-T-6001-M15	JR-T-6001-M25
0.50	Orange	JR-T-6002-M1.5	JR-T-6002-M3	JR-T-6002-M5	JR-T-6002-M10	JR-T-6002-M15	JR-T-6002-M25
0.75	Green	JR-T-6003-M1.5	JR-T-6003-M3	JR-T-6003-M5	JR-T-6003-M10	JR-T-6003-M15	JR-T-6003-M25
1.00	Grey	JR-T-60031-M1.5	JR-T-60031-M3	JR-T-60031-M5	JR-T-60031-M10	JR-T-60031-M15	JR-T-60031-M25
1.40	Black	JR-T-60032-M1.5	JR-T-60032-M3	JR-T-60032-M5	JR-T-60032-M10	JR-T-60032-M15	JR-T-60032-M25

CONVERSIONS

-					
50 µm	=	.002"	0.20 mm	=	.008"
75 µm	=	.003"	0.25 mm	=	.01"
100 µm	=	.004"	0.50 mm	=	.02"
125 µm	=	.005"	0.75 mm	=	.03"
150 µm	=	.006"	1.00 mm	=	.04"
0.013 mm	=	.0005"	1.40 mm	=	.055"
0.025 mm	=	.001"			
0.050 mm	=	.002"	1.5 m	=	4.92'
0.064 mm	=	.0025"	3.0 m	=	9.84'
0.075 mm	=	.003"	5.0 m	=	16.40'
0.10 mm	=	.004"	10.0 m	=	32.80'
0.13 mm	=	.005"	15.0 m	=	49.21'
0.18 mm	=	.007"	25.0 m	=	82.02'

TECH TIP

VICI Jour sample loops for analytical applications are made of PEEK striped color-coded tubing. PEEK loops95

SEE ALSO

Clean-cut polymeric tubing cutter 100 Easy-Flange kit 99 PEEK fittings High pressure24-35 Low pressure . 48, 50-53 PEEK tubing elbows ...100

PEEK tubing • Color-coded



SPECIFICATIONS

MAXIMUM RECOMMENDED WORKING TEMPERATURE 100°C (continuous) TUBING TOLERANCES

Tubing OD	OD and ID (±)
1/16"	0.025 mm

OPTIONS

- Contact your distributor or VICI about:
- Longer bulk tubing
- lengths

 Customized ODs and IDs

DUAL LAYER COLOR-CODED PEEK TUBING

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

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



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

1/16" OD

PRE-CUT LENGTHS

				NEW	_		NEW	
				1.5 m	3 m	10 m	15 m	25 m
ID (mm)	Color	bar	psi	Product No.	Product No.	Product No.	Product No.	Product No.
0.10	Black	460	6700	JR-TD-5804-M1.5	JR-TD-5804-M3	JR-TD-5804-M10	JR-TD-5804-M15	JR-TD-5804-M25
0.13	Red	420	6100	JR-TD-6007-M1.5	JR-TD-6007-M3	JR-TD-6007-M10	JR-TD-6007-M15	JR-TD-6007-M25
0.18	Yellow	400	5800	JR-TD-6008-M1.5	JR-TD-6008-M3	JR-TD-6008-M10	JR-TD-6008-M15	JR-TD-6008-M25
0.25	Blue	386	5600	JR-TD-6009-M1.5	JR-TD-6009-M3	JR-TD-6009-M10	JR-TD-6009-M15	JR-TD-6009-M25
0.50	Orange	350	4500	JR-TD-6010-M1.5	JR-TD-6010-M3	JR-TD-6010-M10	JR-TD-6010-M15	JR-TD-6010-M25
0.75	Green	240	3500	JR-TD-6011-M1.5	JR-TD-6011-M3	JR-TD-6011-M10	JR-TD-6011-M15	JR-TD-6011-M25



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SEE ALSO

Solid color-coded PEEK tubing12 Clean-cut polymeric tubing cutter100

PEEK tubing • Color-coded



SOLID COLOR-CODED PEEK TUBING

Color-coding identifies the ID of your PEEK tubing – each ID is coded with a different color. Solid colored tubing is made of pre-dyed raw material.

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

1/32" OD

PRE-CUT LENGTHS

For natural PEEK tubing, see page 9.

		1 m	3 m
ID (mm)	Color	Product No.	Product No.
0.050	Orange	JR-T-5602-M1	JR-T-5602-M3
0.064	Red	JR-T-5664-M1	JR-T-5664-M3
0.075	Green	JR-T-5603-M1	JR-T-5603-M3
0.10	Black	JR-T-5604-M1	JR-T-5604-M3
0.13	Red	JR-T-5605-M1	JR-T-5605-M3
0.15	Purple	JR-T-5606-M1	JR-T-5606-M3
0.18	Yellow	JR-T-5607-M1	JR-T-5607-M3
0.20	Orange	JR-T-5608-M1	JR-T-5608-M3
0.25	Blue	JR-T-5610-M1	JR-T-5610-M3
0.50	Orange	JR-T-5620-M1	JR-T-5620-M3

SPECIFICATIONS

MAXIMUM RECOMMENDED WORKING TEMPERATURE

100°C (continuous) for 1/16" OD tubing with ID

up to 0.75 mm MAX WORKING PRESSURES

AT ROOM TEMPERATURE See page 108

TUBING TOLERANCES

Tubing OD	OD and ID (\pm)
1/32"	0.025 mm
1/16"	0.025 mm

OPTIONS

Contact your distributor or VICI about:

- Longer bulk tubing
- lengths
- Customized ODs and IDs



1/16" OD

For natural PEEK tubing, see page 9.

		NEW			NEW	
		1.5 m	3 m	10 m	15 m	25 m
ID (mm)	Color	Prod No	Prod No	Prod No	Product No.	Product No.
0.10	Black	JR-T-6020-M1.5	JR-T-6020-M3	JR-T-6020-M10	JR-T-6020-M15	JR-T-6020-M25
0.13	Red	JR-T-6007-M1.5	JR-T-6007-M3	JR-T-6007-M10	JR-T-6007-M15	JR-T-6007-M25
0.15	Purple	JR-T-6030-M1.5	JR-T-6030-M3	JR-T-6030-M10	JR-T-6030-M15	JR-T-6030-M25
0.18	Yellow	JR-T-6008-M1.5	JR-T-6008-M3	JR-T-6008-M10	JR-T-6008-M15	JR-T-6008-M25
0.25	Blue	JR-T-6009-M1.5	JR-T-6009-M3	JR-T-6009-M10	JR-T-6009-M15	JR-T-6009-M25
0.38	Grey	JR-T-6040-M1.5	JR-T-6040-M3	JR-T-6040-M10	JR-T-6040-M15	JR-T-6040-M25
0.50	Orange	JR-T-6010-M1.5	JR-T-6010-M3	JR-T-6010-M10	JR-T-6010-M15	JR-T-6010-M25
0.75	Green	JR-T-6011-M1.5	JR-T-6011-M3	JR-T-6011-M10	JR-T-6011-M15	JR-T-6011-M25

PRE-CUT LENGTHS

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SEE ALSO

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ETFE tubing • PFA tubing



SPECIFICATIONS – ETFE AND PFA

MAX WORKING PRESSURES See page 108 TUBING TOLERANCES

Tubing OD	OD and ID (±)			
1/16" *	0.05 mm			
1/8"	0.10 mm			
1/4"	0.10 mm OD			
0.20 mm ID				
* ETFE with 0.20 mm ID: OD ± 0.07 Wall ± 0.08				

OPTIONS

Contact your distributor or VICI about:

- Longer tubing lengths at competitive bulk prices
- Customized ODs and IDs

ETFE TUBING

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

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

		NEW			NEW	
		1.5 m	3 m	10 m	15 m	25 m
OD	ID (mm)	Product No.	Product No.	Product No.	Product No.	Product No.
1/32"	0.25	JR-T-084-M1.5	JR-T-084-M3	JR-T-084-M10	JR-T-084-M15	JR-T-084-M25
1/16"	0.20	JR-T-079-M1.5	JR-T-079-M3	JR-T-079-M10	JR-T-079-M15	JR-T-079-M25
	0.25	JR-T-080-M1.5	JR-T-080-M3	JR-T-080-M10	JR-T-080-M15	JR-T-080-M25
	0.50	JR-T-082-M1.5	JR-T-082-M3	JR-T-082-M10	JR-T-082-M15	JR-T-082-M25
	0.75	JR-T-083-M1.5	JR-T-083-M3	JR-T-083-M10	JR-T-083-M15	JR-T-083-M25
	1.00	JR-T-085-M1.5	JR-T-085-M3	JR-T-085-M10	JR-T-085-M15	JR-T-085-M25
1/8"	1.59	JR-T-086-M1.5	JR-T-086-M3	JR-T-086-M10	JR-T-086-M15	JR-T-086-M25
	2.40	JR-T-089-M1.5	JR-T-089-M3	JR-T-089-M10	JR-T-089-M15	JR-T-089-M25

		1 m	3 m
OD	ID (mm)	Product No.	Product No.
3.0 mm	1.0	JR-T-087-M1	JR-T-087-M3
6.0 mm	4.0	JR-T-088-M1	JR-T-088-M3
6.4 mm	4.8	JR-T-090-M1 NEW	JR-T-090-M3 NEW



PFA TUBING

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

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

		NEW			NEW	
		1.5 m	3 m	10 m	15 m	25 m
OD	ID (mm)	Product No.	Product No.	Product No.	Product No.	Product No.
1/16"	0.50	JR-T-4001-M1.5	JR-T-4001-M3	JR-T-4001-M10	JR-T-4001-M15	JR-T-4001-M25
	0.75	JR-T-4002-M1.5	JR-T-4002-M3	JR-T-4002-M10	JR-T-4002-M15	JR-T-4002-M25
	1.00	JR-T-4007-M1.5	JR-T-4007-M3	JR-T-4007-M10	JR-T-4007-M15	JR-T-4007-M25
1/8"	1.59	JR-T-4003-M1.5	JR-T-4003-M3	JR-T-4003-M10	JR-T-4003-M15	JR-T-4003-M25

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

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

MORE INFO

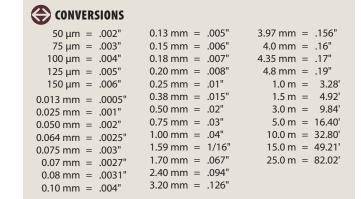
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		per meter
OD	ID (mm)	Product No.
1/8"	1.70	JR-T-4005
3/16"	3.20	JR-T-4009
1/4"	3.97	JR-T-4006 NEW
	4.35	JR-T-4004
	4.80	JR-T-4008 NEW





PTFE TUBING

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

PTFE tubing - solid color-coded

Solid colors identify the tubing ID.

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

				3 m	10 m	25 m
OD		ID (mm)	Color	Product No.	Product No.	Product No.
1/16	5"	0.25	Blue	JR-T-4011C-M3	JR-T-4011C-M10	JR-T-4011C-M25
	[0.25	Black	JR-T-6808-M3	JR-T-6808-M10	JR-T-6808-M25
	[0.50	Black	JR-T-6811-M3	JR-T-6811-M10	JR-T-6811-M25
	[0.50	Orange	JR-T-4183C-M3	JR-T-4183C-M10	JR-T-4183C-M25
	ſ	0.75	Green	JR-T-4036C-M3	JR-T-4036C-M10	JR-T-4036C-M25



SPECIFICATIONS

MAXIMUM RECOMMENDED WORKING TEMPERATURE 100°C (continuous) MAX WORKING PRESSURES AT ROOM TEMPERATURE See page 108

TUBING TOLERANCES

Tubing OD	OD and ID (±)
1/16"	0.05 mm
1/8"	0.10 mm
1/4"	0.10 mm
1/2"	0.20 mm

OPTIONS

Contact your distributor or VICI about:

• Longer tubing lengths at competitive bulk prices

• Customized ODs and IDs

TECH TIP

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



Use black PTFE for for light sensitive applications such as enzymatic reactions, luminescent reactions, connectioning to a flow cell, and radioactive HPLC.



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Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl _____PTFE tubing • Natural

TUBING



PTFE tubing – natural color

		NEW				NEW	
		1.5 m	3 m	5 m	10 m	15 m	25 m
OD	ID (mm)	Product No.	Product No.	Product No.	Product No.	Product No.	Product No.
1/16″	0.18	JR-T-6805-M1.5	JR-T-6805-M3	JR-T-6805-M5	JR-T-6805-M10	JR-T-6805-M15	JR-T-6805-M25
	0.25	JR-T-4011-M1.5	JR-T-4011-M3	JR-T-4011-M5	JR-T-4011-M10	JR-T-4011-M15	JR-T-4011-M25
	0.50	JR-T-4183-M1.5	JR-T-4183-M3	JR-T-4183-M5	JR-T-4183-M10	JR-T-4183-M15	JR-T-4183-M25
	0.75	JR-T-4036-M1.5	JR-T-4036-M3	JR-T-4036-M5	JR-T-4036-M10	JR-T-4036-M15	JR-T-4036-M25
	1.00	JR-T-6807-M1.5	JR-T-6807-M3	JR-T-6807-M5	JR-T-6807-M10	JR-T-6807-M15	JR-T-6807-M25
1/8″	1.59	JR-T-6800-M1.5	JR-T-6800-M3	JR-T-6800-M5	JR-T-6800-M10	JR-T-6800-M15	JR-T-6800-M25
	2.40	JR-T-4037-M1.5	JR-T-4037-M3	JR-T-4037-M5	JR-T-4037-M10	JR-T-4037-M15	JR-T-4037-M25

<i>NEW</i> 1.5 m 3 m			<i>NEW</i> 10 m 15 m 25 m				
	OD	ID (mm)	Product No.	Product No.	Product No.	Product No.	Product No.
	2 mm	1.70	JR-T-6801-M1.5	JR-T-6801-M3	JR-T-6801-M10	JR-T-6801-M15	JR-T-6801-M25
	4 mm	3.00	JR-T-4039-M1.5	JR-T-4039-M3	JR-T-4039-M10		_

Tubir	Tubing OD		per meter
in.	mm		Product No.
3/16"	4.76	3.76 mm	JR-T-4041
0.236"	6.00	4.00	JR-T-4042 NEW
1/4"	6.35	4.76 mm	JR-T-6810 NEW
0.315"	8.00	6.00 mm	JR-T-4050 NEW
1/2"	12.7	9.53 mm	JR-T-4043 NEW



$50 \ \mu\text{m} = .002"$ $75 \ \mu\text{m} = .003"$ $100 \ \mu\text{m} = .004"$ $125 \ \mu\text{m} = .005"$ $150 \ \mu\text{m} = .006"$ $0.013 \ \text{mm} = .0005"$ $0.025 \ \text{mm} = .001"$ $0.050 \ \text{mm} = .002"$	0.13 mm = .005" 0.15 mm = .006" 0.18 mm = .007" 0.20 mm = .008" 0.25 mm = .01" 0.38 mm = .015" 0.50 mm = .02" 0.75 mm = .03"	3.97 mm = .156" 4.0 mm = .16" 4.35 mm = .17" 4.8 mm = .19" 1.0 m = 3.28' 1.5 m = 4.92' 3.0 m = 9.84' 5.0 m = 16.40'
0.064 mm = .0025" 0.075 mm = .003" 0.07 mm = .0027" 0.08 mm = .0031" 0.10 mm = .004"	1.00 mm = .04" 1.59 mm = 1/16" 1.70 mm = .067" 2.40 mm = .094" 3.20 mm = .126"	10.0 m = 32.80' 15.0 m = 49.21' 25.0 m = 82.02'



FEP TUBING

TUBING

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

We recommend FEP for ion chromatography applications.

		1 m	3 m	10 m
OD	ID (mm)	Product No.	Product No.	Product No.
1/32"	0.13	JR-T-6605-M1	JR-T-6605-M3	JR-T-6605-M10
	0.15	JR-T-6606-M1	JR-T-6606-M3	JR-T-6606-M10
	0.18	JR-T-6607-M1	JR-T-6607-M3	JR-T-6607-M10
	0.20	JR-T-6797-M1	JR-T-6797-M3	JR-T-6797-M10
	0.25	JR-T-6610-M1	JR-T-6610-M3	JR-T-6610-M10
	0.38	JR-T-6615-M1	JR-T-6615-M3	JR-T-6615-M10
	0.40	JR-T-6798-M1	JR-T-6798-M3	JR-T-6798-M10
	0.50	JR-T-6620-M1	JR-T-6620-M3	JR-T-6620-M10

		NEW			NEW	
		1.5 m	3 m	10 m	15 m	25 m
OD	ID (mm)	Product No.	Product No.	Product No.	Product No.	Product No.
1/16"	0.25	JR-T-6812-M1.5	JR-T-6812-M3	JR-T-6812-M10	JR-T-6812-M15	JR-T-6812-M25
	0.30	JR-T-6702-M1.5	JR-T-6702-M3	JR-T-6702-M10	JR-T-6702-M15	JR-T-6702-M25
	0.50	JR-T-6802-M1.5	JR-T-6802-M3	JR-T-6802-M10	JR-T-6802-M15	JR-T-6802-M25
	0.75	JR-T-6803-M1.5	JR-T-6803-M3	JR-T-6803-M10	JR-T-6803-M15	JR-T-6803-M25
	1.00	JR-T-6806-M1.5	JR-T-6806-M3	JR-T-6806-M10	JR-T-6806-M15	JR-T-6806-M25
1/8"	1.59	JR-T-6804-M1.5	JR-T-6804-M3	JR-T-6804-M10	JR-T-6804-M15	JR-T-6804-M25
	2.10	JR-T-6813-M1.5	JR-T-6813-M3	JR-T-6813-M10	JR-T-6813-M15	JR-T-6813-M25
3/16"	3.18	JR-T-6835-M1.5	JR-T-6835-M3	JR-T-6835-M10	JR-T-6835-M15	JR-T-6835-M25
1 mm	0.50	JR-T-6105-M1.5	JR-T-6105-M3	JR-T-6105-M10	JR-T-6105-M15	JR-T-6105-M25
2 mm	1.00	JR-T-6210-M1.5	JR-T-6210-M3	JR-T-6210-M10	JR-T-6210-M15	JR-T-6210-M25
3 mm	1.00	JR-T-6310-M1.5	JR-T-6310-M3	JR-T-6310-M10	JR-T-6310-M15	JR-T-6310-M25
	2.00	JR-T-6320-M1.5	JR-T-6320-M3	JR-T-6320-M10	JR-T-6320-M15	JR-T-6320-M25

		per meter	
OD	ID (mm)	Product No.	
4 mm	3.00	JR-T-6860	NEW
1/4"	3.96	JR-T-6840	NEW
	4.35	JR-T-6809	
	3/16"	JR-T-6841	NEW
5/16"	1/4"	JR-T-6650	NEW

0.05 mm = .002"	0.50 mm = .02"	3.76 mm = .15"	1.0 m = 3.28'	
0.10 mm = .004"	0.75 mm = .03"	3.96 mm = .156"	1.5 m = 4.92'	
0.13 mm = .005"	1.00 mm = .04"	4.00 mm = .157"	3.0 m = 9.84'	
0.15 mm = .006"	1.59 mm = 1/16"	4.35 mm = .17"	5.0 m = 16.40'	
0.18 mm = .007"	1.70 mm = .067"	4.76 mm = 3/16"	10.0 m = 32.80'	
0.20 mm = .008"	2.00 mm = .08"	4.80 mm = .189"	15.0 m = 49.21'	
0.25 mm = .01"	2.10 mm = .083"	6.00 mm = .24"	25.0 m = 82.02'	
0.30 mm = .012"	2.40 mm = .094"	6.35 mm = 1/4"		
0.38 mm = .015"	3.00 mm = .12"	7.94 mm = 5/16"		
0.40 mm = .016"	3.18 mm = 1/8"	9.35 mm = 3/8"		

SPECIFICATIONS

MAXIMUM RECOMMENDED WORKING TEMPERATURE 80°C (continuous) MAX WORKING PRESSURES AT ROOM TEMPERATURE See page 108

TUBING TOLERANCES

Tubing OD	OD and ID (±)	
1/32"	0.025 mm	
1/16"	0.08 mm	
1/8"	0.10 mm	
1/4"	0.10 mm OD	
	0.20 mm ID	

OPTIONS

Contact your distributor or VICI about:

- Longer tubing lengths at competitive bulk prices
- Customized ODs and IDs





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

MORE INFO

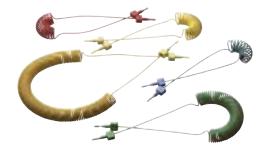
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SEE ALSO

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Easy-Flange kit99		
Low pressure		
fittings		

Specialty polymeric tubing TUBING





THERMO-FORMED POLYMERIC TUBING

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

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

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

FOR PRICING

Contact VICI or your local distributor for more information or a quotation.

SPECIFICATIONS

PRESSURE

Low pressure only TUBING 1/8" OD 1.65 mm ID

TOLERANCES

±0.05 mm (.002")

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

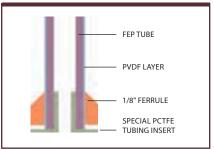
OPTIONS

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

IMPERMEABLE POLYMERIC TUBING

- FEP coated with PVDF
- Excellent chemical resistance
- For technical applications
- Prevents "re-gassing" after degassing in LC applications

PTFE and FEP have very good chemical resistance, but are too permeable to be suitable for mobile phase transfer lines. PVDF, on the other hand, lacks chemical resistance but is a very tight polymer with no observable micropores. Our impermeable



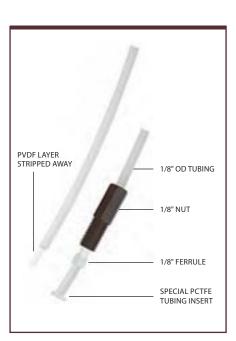
tubing is produced by co-extruding PVDF over FEP to combine the best features of both polymers, ensuring that degassed solvent will stay degassed until it reaches the HPLC pump.

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

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

	3 m	10 m
	Product No.	Product No.
Impermeable tubing, 1/8" OD x 1.65 mm ID	JR-T-6130-M3	JR-T-6130-M10

		Qty/pkg	Product No.
Additiona	l spare parts		
PCTFE tubi	ng inserts	10	JR-6141-10
1/8″ PPS nu	ıts	10	JR-55071-10
1/8" ETFE fe	1/8" ETFE ferrules		JR-051-10
Fitting kit	Contains:		JR-6140
	PCTFE tubing inserts	2	
	1/8" PPS nuts	2	
	1/8" ETFE ferrules	2	



TECH TIP

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



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



About FEP.....113 About PVDF 114 Chemical resistance ...110 Tubing ID chart: volume per length..107 Tubing tolerances 109



Clean-cut polymeric tubing cutter100 Color-sleeve fingertight adapters . 23



FUSED SILICA CAPILLARY TUBING NEW

Untreated fused silica (FS) capillaries

FS capillaries are manufactured by coating fused silica with a layer of polyimide, and consist of synthetically manufactured quartz glass in amorphous (non-crystalline) form.

Due to the polyimide coating, the tubing is flexible and robust. The tubing is stable at temperatures up to 350°C, and is ideal for applications in Micro- and Nano-LC.

FS capillaries are chemically inert. They can be used with organic solvents and in the pH range from 0 – 10.

		per meter
OD	ID	Product No.
360 µm	25 µm	JR-T-7360-025
	50 µm	JR-T-7360-050
	75 µm	JR-T-7360-075
	100 µm	JR-T-7360-100
	150 µm	JR-T-7360-150
	180 µm	JR-T-7360-180

Sold by the meter.

SPECIFICATIONS

MAXIMUM RECOMMENDED WORKING TEMPERATURE 350°C

PRESSURE RATING

Up to 6000 bar (87,000 psi) TOLERANCES

OD ± 5 μm (.002") ID ± 5 μm (.002")

Note: Parameters for temperature and pressure ratings are strongly dependent on bending, chemicals used, pressure, and temperature.

TECH TIP Use our 360 μm

Nanovolume[®] fittings to connect this tubing free of dead volume. PEEK fittings 44 Stainless fittings 45



50 µm	=	.002"
75 µm	=	.003"
100 µm	=	.004"
0.13 mm	=	.005"
0.18 mm	=	.007"
0.25 mm	=	.01"
0.38 mm	=	.015"
0.50 mm	=	.02"
0.75 mm	=	.03"
1.00 mm	=	.04"
1.52 mm	=	XXXX
1.59 mm	=	1/16"
1.70 mm	=	.067"
2.10 mm	=	.083"
2.16 mm	=	.XXX"
4.65 mm	=	.XXX"

Stainless tubing • Bulk quantities

TUBING



STAINLESS STEEL TUBING

This is the standard tubing material for chromatography, suitable for a wide variety of applications. Close tolerances are held on both ID and OD.

Note that bulk tubing is roughly cut with tubing pliers, so the ends must be properly cut before use. For electrolytically-cut premium SS tubing, please order our pre-cut tubing (*pages 20-21*). Pre-cut tubing is steam cleaned and offers burr-free ends – ready to use for high end LC applications.

Stainless tubing – premium grade

• Cold drawn, seamless Type 316 stainless steel

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

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

		NEW						
		1.5 m	3 m	10 m				per meter
OD	ID (mm)	Product No.	Product No.	Product No.		OD	ID (μm)	Product No.
1/32"	0.13	JR-TSS.505-M1.5	JR-TSS.505-M3	JR-TSS.505-M10		360 µm	75	JR-T-623-03
	0.18	JR-TSS.507-M1.5	JR-TSS.507-M3	JR-TSS.507-M10				NEW
	0.25	JR-TSS.510-M1.5	JR-TSS.510-M3	JR-TSS.510-M10			150	JR-T-623-06 NEW
	0.50	JR-TSS.520-M1.5	JR-TSS.520-M3	JR-TSS.520-M10] [INEVV
1/16"	0.13	JR-TSS105-M1.5	JR-TSS105-M3	JR-TSS105-M10				
	0.25	JR-TSS110-M1.5	JR-TSS110-M3	JR-TSS110-M10				
	0.38	JR-TSS115-M1.5	JR-TSS115-M3	JR-TSS115-M10				
	0.50	JR-TSS120-M1.5	JR-TSS120-M3	JR-TSS120-M10				
	0.75	JR-TSS130-M1.5	JR-TSS130-M3	JR-TSS130-M10				
	1.00	JR-TSS140-M1.5	JR-TSS140-M3	JR-TSS140-M10				
1/8"	0.75	JR-TSS230-M1.5	JR-TSS230-M3	JR-TSS230-M10				
	1.00	JR-TSS240-M1.5	JR-TSS240-M3	JR-TSS240-M10				
	1.52	JR-TSS260-M1.5	JR-TSS260-M3	JR-TSS260-M10				
	1.70	JR-TSS267-M1.5	JR-TSS267-M3	JR-TSS267-M10]			
	2.16	JR-TSS285-M1.5	JR-TSS285-M3	JR-TSS285-M10				

TECH TIP

SPECIFICATIONS

Values shown are mini-

mum; rating varies with

bar

400

365

315

psi

9857

5800

5300

4600

OD and ID (±) 0.010 mm

0.010 mm

0.010 mm

0.025 mm

ID; (see page 107)

360 µm 679

OD

1/32"

1/16"

1/8"

TOLERANCES

50 um

75 μm 100 μm

all other

ID's

bulk prices.

PRESSURE RATING

For zero dead volume connections, we strongly recommend pre-cut stainless steel tubing . . 20

Contact us for more info about longer tubing lengths at competitive

NOTE

ID dimensions in mm are converted from nominal inch dimensions.

MORE INFO

About Type 316 stainless steel.....114 Maximum working pressure107 Tubing ID chart: volume per length..107

SEE ALSO

Pre-cut SS tubing...20-21 Stainless steel tubing cutter.....101 Stainless fittings....36-41

PRESSURE RATING

Values shown are minimum; rating varies with ID; (see page 93)

ODbarpsi1/16"31546001/8"3154600

TOLERANCES OD ± 0.05mm (.002") ID ± 0.05mm (.002")

OPTIONS

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

Stainless tubing – standard grade

HPLC, GC

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

		<i>NEW</i> 1.5 m	3 m	10 m
OD	ID (mm)	Product No.	Product No.	Product No.
1/16"	0.10	JR-T-625-03-M1.5 NEW	JR-T-625-03-M3 NEW	JR-T-625-03-M10 <i>NEW</i>
	0.13	JR-T-625-04-M1.5	JR-T-625-04-M3	JR-T-625-04-M10
	0.18	JR-T-625-05-M1.5	JR-T-625-05-M3	JR-T-625-05-M10
	0.25	JR-T-625-10-M1.5	JR-T-625-10-M3	JR-T-625-10-M10
	0.50	JR-T-625-20-M1.5	JR-T-625-20-M3	JR-T-625-20-M10
	0.75	JR-T-625-30-M1.5	JR-T-625-30-M3	JR-T-625-30-M10
	1.00	JR-T-625-40-M1.5	JR-T-625-40-M3	JR-T-625-40-M10
1/8"	2.1	JR-T-626-00-M1.5	JR-T-626-00-M3	JR-T-626-00-M10

		per meter
OD	ID (mm)	Product No.
1/4"	4.65	JR-T-628-00

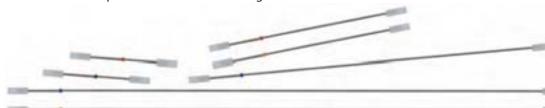
UHPLC, HPLC, GC

Stainless tubing • Pre-cut



Stainless steel tubing – pre-cut

- For zero dead volume connections
- Steam-cleaned and ready to use
- Soft annealed OD for easy ferrule connections
- Color bands for quick identification of tubing ID



SPECIFICATIONS

PRESSURE RATING Varies with ID; minimum is 365 bar (5300 psi) (see page 107) TOLERANCES

Tubing OD	OD and ID (±)
1/32"	0.01 mm
1/16"	± 0.05 mm OD
	± 0.025 mm ID

VICI Jour offers pre-cut 1/32" and 1/16" stainless steel tubing in lengths most commonly required in UHPLC and HPLC systems. The tubes are cut to square, burr-free ends for zero dead volume connections. Colored bands allow quick ID identification. VICI pre-cut tubing is specially cleaned with steam from micro-filtered deionized water, which removes both organic and inorganic contaminants. Longer tubes that cannot be steam-cleaned are cleaned with liquid hexane. Softener-free polyethylene caps are used to prevent any contamination during shipment and storage.

PRE-CUT TUBING FOR STANDARD HPLC

			50 mm	100 mm	NEW 130 mm
OD	ID (mm)	Color	Product No.	Product No.	Product No.
1/16"	0.13	Red	JR-T-97005	JR-T-97010	JR-T-97012
	0.18	Yellow	JR-T-97025	JR-T-97030	JR-T-97032
	0.25	Blue	JR-T-97045	JR-T-97055	JR-T-97057
	0.50	Orange	JR-T-97075	JR-T-97080	JR-T-97082
	0.75	Green	JR-T-97095	JR-T-97100	JR-T-97102

			NEW 180 mm	200 mm	300 mm
OD	ID (mm)	Color	Product No.	Product No.	Product No.
1/16"	0.13	Red	JR-T-97013	JR-T-97015	JR-T-97020
	0.18	Yellow	JR-T-97033	JR-T-97035	JR-T-97040
	0.25	Blue	JR-T-97058	JR-T-97060	JR-T-97065
	0.50	Orange	JR-T-97083	JR-T-97085	JR-T-97090
	0.75	Green	JR-T-97103	JR-T-97105	JR-T-97110

PRE-CUT TUBING FOR MICRO LC NEW

Use with 1/32" Nanovolume fittings, page 43.

OD	ID (mm)	Color	50 mm Product No.	100 mm Product No.	130 mm Product No.
1/32"	0.050	Blue	JR-T-91050	JR-T-91100	JR-T-91130
NEW	0.075	Black	JR-T-92050	JR-T-92100	JR-T-92130
			180 mm	200 mm	300 mm

			180 mm	200 mm	300 mm
OD	ID (mm)	Color	Product No.	Product No.	Product No.
1/32"	0.050	Blue	JR-T-91180	JR-T-91200	JR-T-91300
NEW	0.075	Black	JR-T-92180	JR-T-92200	JR-T-92300

NOTE

Do not bend Micro LC tubing more than 90° to avoid closure.

TECH TIP

Contact your local distributor or VICI for custom lengths.



50 μπ	=	.002
75 µm	=	.003"
100 µm	=	.004"
125 µm	=	.005"
150 µm	=	.006"
0.13 mm	=	.005"
0.18 mm	=	.007"
0.25 mm	=	.01"
0.50 mm	=	.02"
0.75 mm	=	.03"

Stainless tubing • Pre-cut fliexible

TUBING



SPECIFICATIONS

 PRESSURE RATING

 Varies with ID; minimum

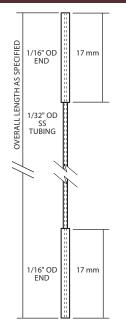
 is 365 bar (5300 psi)

 (see page 107)

 TOLERANCES

 OD ±0.05mm (.002")

 ID ±0.025mm (.001")



Stainless steel tubing – pre-cut flexible

- Seamless 1/32" tubing with 1/16" laser-welded ends
- For zero dead volume connections
- Steam-cleaned and ready to use
- Soft annealed OD for easy ferrule connections
- Color bands for quick identification

Our flexible pre-cut stainless steel tubing is made of 1/32" premium grade 316 stainless steel tubing with ends laser-welded into 1/16" tubing of the same premium grade.

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

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

PRE-CUT FLEXIBLE TUBING FOR STANDARD HPLC

1/16" 0.13 Red JR-T-96005 JR-T-96008 JR-T-96010 JR-T-96013 JR-T-96015 0.18 Yellow JR-T-96105 JR-T-96108 JR-T-96110 JR-T-96113 JR-T-96115 0.25 Blue JR-T-96205 JR-T-96208 JR-T-96210 JR-T-96213 JR-T-96215	OD	ID (mm)	Color	105 mm Product No.	NEW 130 mm Product No.	150 mm Product No.	NEW 180 mm Product No.	200 mm Product No.
0.18 Yellow JR-T-96105 JR-T-96108 JR-T-96110 JR-T-96113 JR-T-96115 0.25 Blue JR-T-96205 JR-T-96208 JR-T-96210 JR-T-96213 JR-T-96215			COIOI	Product No.	Product No.	PIOUUCLINO.	PIOUUCLINO.	Product No.
0.25 Blue JR-T-96205 JR-T-96208 JR-T-96210 JR-T-96213 JR-T-96215	1/16"	0.13	Red	JR-T-96005	JR-T-96008	JR-T-96010	JR-T-96013	JR-T-96015
		0.18	Yellow	JR-T-96105	JR-T-96108	JR-T-96110	JR-T-96113	JR-T-96115
0.50 Orange JR-T-96305 JR-T-96308 JR-T-96310 JR-T-96313 JR-T-96315		0.25	Blue	JR-T-96205	JR-T-96208	JR-T-96210	JR-T-96213	JR-T-96215
		0.50	Orange	JR-T-96305	JR-T-96308	JR-T-96310	JR-T-96313	JR-T-96315

			280 mm	400 mm	600 mm	700 mm	900 mm
OD	ID (mm)	Color	Product No.				
1/16"	0.13	Red	JR-T-96020	JR-T-96025	JR-T-96030	JR-T-96035	—
	0.18	Yellow	JR-T-96120	JR-T-96125	JR-T-96130	JR-T-96135	JR-T-96145
	0.25	Blue	JR-T-96220	JR-T-96225	JR-T-96230	JR-T-96235	_
	0.50	Orange	JR-T-96320	JR-T-96325	JR-T-96330	JR-T-96335	



FITTINGS

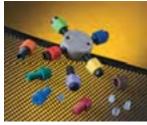


HIGH AND LOW PRESSURE









HIGH PRESSURE POLYMERIC FITTINGS page 24-35

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

ULTRA-HIGH PRESSURE STAINLESS FITTINGS page 36-41

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

NANOVOLUME® HPLC FITTINGS ... page 42-45

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

LOW PRESSURE FITTINGS page 46-55

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



Tools for fittings

Ferrule removal kit	103
Tweezer	103
ValvTool	102
Wrench	103

Color-coded adapters

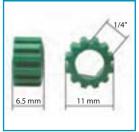


SPECIFICATIONS

For 1/4" hex-head nuts MATERIAL Polypropylene

COLOR-IT FINGERTIGHT ADAPTERS

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



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

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

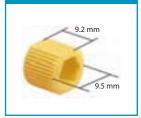


SPECIFICATIONS

For 1/4" hex-head nuts MATERIAL Polypropylene

COLOR-SLEEVE FINGERTIGHT ADAPTERS

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



This adapter is useful for color coding different solvent lines, and turns VICI Jour PPS nuts into fingertight fittings in an instant.							
Color		Qty/pkg	Product No.		Color		
Natural 5 JR-55080-5 Orange						Orange	

		10	JR-55080-10
(and a	White	5	JR-55081-5
9		10	JR-55081-10
	Dark grey	5	JR-55082-5
		10	JR-55082-10
	Black	5	JR-55083-5
		10	JR-55083-10
	Lavender	5	JR-55084-5
		10	JR-55084-10
	Red	5	JR-55085-5
-		10	JR-55085-10
	Yellow	5	JR-55086-5
		10	JR-55086-10

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



JR-55088-10 JR-55089-5 JR-55089-10 JR-55090-5

NUT NOT

INCLUDED

HIGH PRESSURE FITTINGS



HPLC AND UHPLC, POLYMERIC

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

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

HIGH PRESSURE POLYMERIC FITTINGS INDEX

ONE-PIECE FITTINGS

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Over 5,000 psipage	25
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NUTS AND FERRULES

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PLUGS AND CAPS

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Unions	
Bulkhead unions 32	
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PEEK TEES AND CROSSES

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PEEK ADAPTERS

PEEK port and Luer adapters 35



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



ChromBox kit105
HPLC parts kit with
PEEK and stainless
fittings and tubing
Fingertight adapters
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Color-Sleeve23
Nanovolume [®] high
pressure fittings42-45
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Tools for fittings . 100-103

One-piece fittings • Hex-head

HIGH PRESSURE FITTINGS • POLYMERIC

UHPLC

10-32



TUBING OD / THREADS 1/32" 6-40 1/16" 10-32 MATERIAL PEEK-HT PRESSURE RATING Fingertight, on stainless steel tubing: 1/32" 625 bar (9,000 psi) 1/16" 700 bar (10,000 psi)

SPECIFICATIONS

TUBING OD / THREADS

±0.05 mm (.002")

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

PRESSURE RATING

10-32

1/16"

MATERIAL PEEK

TOLERANCE

material)

SPECIFICATIONS

PEEK one-piece hex-head fittings

- Made of special PEEK-HT[™] for better pressure resistance
- One-piece no ferrule required

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

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

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

PEEK one-piece hex-head fittings

- Fingertight up to 350 bar (5000 psi)
 Excellent chemical and mechanical properties
- One-piece no ferrule required

Handy tightening tool included

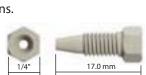
• Biocompatible

Biocompatible

• For any 10-32 high pressure fitting

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

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



Short



SPECIFICATIONS

TUBING OD / THREADS 1/16" 10-32 MATERIAL Black PPS (Polyphenylene sulfide) TOLERANCE ±0.05 mm (.002")

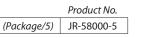
PRESSURE RATING

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

PPS one-piece hex-head fittings

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

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







About PEEK113 About PPS.....113 Chemical resistance ..110



for high pressure applications 9-12 PEEK starter kit 104

1/32" and 1/16" tightening tools for PEEK fittings103



Color-Sleeve adapters for hexhead fittings ... page 23



____1

10-32

Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl **One-piece fittings** • Fingertight



HIGH PRESSURE FITTINGS • POLYMERIC

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

10-32

- PEEK: fingertight up to 350 bar (5000 psi) PVDF: fingertight to 180 bar (2600 psi)
- One-piece no ferrule required
- Excellent chemical and mechanical properties Biocompatible
- Our PEEK fingertight fittings are available in six colors, for easy identification of tubing lines. They are rated to 350 bar (5000 psi) and can be used in virtually any type of 10-32 thread HPLC fitting detail on the market. PVDF fittings are chemically inert, and suitable for medium pressure applications. They will not constrict soft polymeric tubing as PEEK fingertight fittings sometimes do. Packages of 5.

			5
	Material	Color	Product No.
(Pkg/5)	PEEK	Natural	JR-55020-5
	6	Black	JR-55021-5
1	6	Red	JR-55022-5
	1	Yellow	JR-55023-5
-	-	Blue	JR-55024-5
		Green	JR-55025-5



PEEK one-piece fingertight fittings

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

ringertigi		(5000 psi)	Sold in p	Product No.	
(Package/5)	Standard	Natural PEEK	12.0 mm	22.0 mm	JR-5502-5
	Short	Natural PEEK	() 12.0 mm	17.1 mm	JR-5504-5
	Long	Natural PEEK	12.0 mm	25.1 mm	JR-5507-5
	Narrow hex-head/ fingertight	Natural PEEK	1/4"	28.1 mm	JR-5508-5
	Standard	Reinforced GF PEEK	9.15 mm	20.8 mm	JR-5513-5 NEW
	Narrow hexhead/ fingertight	Reinforced GF PEEK	1/4"	28.1 mm	JR-5518-5 NEW

SPECIFICATIONS

TUBING OD / THREADS 1/16" 10-32 MATERIAL PEEK TOLERANCE ±0.05 mm (.002") PRESSURE RATING

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

SPECIFICATIONS

TUBING OD / THREADS 1/16" 10-32 MATERIAL PEEK TOLERANCE ±0.05 mm (.002") **PRESSURE RATING** <350 bar (5000 psi) (Varies with tubing ID and material)

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

🚺 TECH TIP

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



About PEEK113 About PVDF 113 Chemical resistance ...110

One-piece fittings

HIGH PRESSURE FITTINGS • POLYMERIC

10-32



10-32

SPECIFICATIONS

 TUBING OD / THREADS

 1/16"
 10-32

 MATERIAL

 PEEK-HT

 TOLERANCE

 ±0.05 mm (.002")

 PRESSURE RATING

TighteningbarpsiFingertight<500</td>7250With tool<1000</td>14500(Varies with tubing ID and
material)

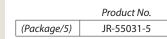
PEEK-HT[™] one-piece fittings NEW

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

5/16"

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

Sold in packages of 5.



Snap-in ferrule rotates freely

Choice of ferrule materials

• Choice of fitting lengths



SPECIFICATIONS

1/16"10-32MATERIALNut:PEEKFerrule:PEEKPRESSURE RATING

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

OPTIONS

OPTIONAL FERRULE MATERIALS FEP, PFA, glass-filled PEEK, PCTFE, glass-filled PTFE, and PTFE. Contact us for availability. Some 1/32" versions are available. Call for details.

SEE ALSO

1/16" OD tubing

for high pressure applications ..page 9-12 PEEK starter kit104

ValvTool for tightening hex-head fittings ...102

adapters.....23

Color-It fingertight

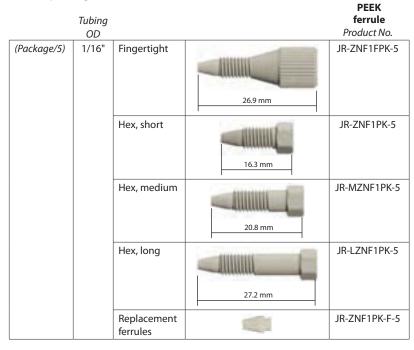


while solving a problem inherent to such designs. In other one-piece designs, the ferrule rotates against the fitting detail, creating particulates. The no twist design has a separate ferrule that snaps into the nut, so it's attached but still free to avoid rotation during tightening.

No-twist fittings offer the convenience of a one-piece fitting

Since the ferrule is not machined onto the nut, it can be made from a different material. We offer several PEEK nuts, with ferrules of PEEK or one of the optional materials listed at left.

Sold in packages of 5.





Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl Nuts • Ferrules



HIGH PRESSURE FITTINGS • POLYMERIC

PEEK ferrules

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

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

. . .

UHPLC

SPECIFICATIONS

TUBING OD / THREADS 1/16" 10-32 MATERIAL PEEK PRESSURE RATING On SS tubing with SS nut: 650 bar (9400 psi)

PEEK nuts with single ferrules

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

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

Tubina



SPECIFICATIONS

MATERIAL PEEK PRESSURE RATING <280 bar (4000 psi) (Varies with tubing ID and material)

			ruonig				
			OD	Thread			Product No.
(Pkg/5)	Single	eferrules	1/32"				JR-ZF.5PK-5
			1/16"				JR-5003-5
			1/8"				JR-ZF2PK-5
	Nuts	Fingertight	1/32"	6-40	6.4 mm (6.35 mm)	10.7 mm	JR-ZN.5FPK-5
		Fingertight	1/16"	10-32	10 mm	17.5 mm	JR-5570-5
		Hex-head	1/8"	5/16-24	9.5 mm	16 mm	JR-ZN2PK-5





Nuts • Ferrules

HIGH PRESSURE FITTINGS • POLYMERIC

10-32

PEEK nuts with double ferrules

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

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

							1	
		Tubing OD						Product No.
(Package/5)	Double ferrule	1/16"				1		JR-5004-5
	Nuts	1/16"	Hex-head	Short	1/4"		11.4 mm	JR-5511-5
				Long	1/4"	11	15.4 mm	JR-5510-5
			Fingertight		2 .0 mm		17.8 mm	R-5580-5

SPECIFICATIONS

TUBING OD / THREADS 1/16" 10-32 MATERIAL PEEK PRESSURE RATING

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



Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl Connectors • 1/4-28



HIGH PRESSURE FITTINGS • POLYMERIC

Nut, ferrule, and bushing1/4-28• High pressure rating – up to 490 bar (7000 psi) with 1/16" tubing• For 1/4-28 connections• Available for 1/32" and 1/16" tubingThis combination of PPS nut, PEEK ferrule, and
stainless steel bushing allows a high pressure
connection in a 1/4-28 flat-bottomed fitting detail.Sold in packages of 10.Order nuts and bushing/ferrules separately.

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

SPECIFICATIONS

TUBING OD / THREADS 1/32" 1/4-28 1/16" 1/4-28 MATERIALS PPS Nut Ferrule PEEK Bushing SS PRESSURE RATING OD bar psi 1/32" 2500 175 1/16" 490 7000 (Varies with tubing ID and material)

EVENT NUTS





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

Plugs and caps

HIGH PRESSURE FITTINGS • POLYMERIC



PEEK plugs and caps

SPECIFICATIONS

MATERIAL PEEK PRESSURE RATING <350 bar (5000 psi) (Varies with tubing material)

• For plugging ports and capping solvent lines

• Available in all common thread sizes

Sold individually.



Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl Unions • Bulkhead unions



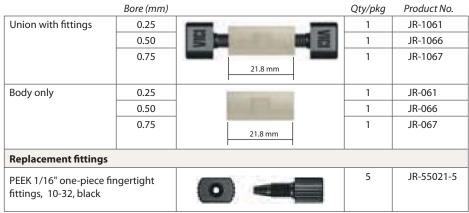
HIGH PRESSURE FITTINGS • POLYMERIC

PEEK unions

10-32

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

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



SPECIFICATIONS TUBING OD 1/16" MATERIAL PEEK PRESSURE RATING <350 bar (5000 psi)

(Varies with tubing ID and

material)

PEEK bulkhead unions

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

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

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

Includes fittings.

lines

	Bore (mm)		Qty/pkg	Product No.
Bulkhead union	0.25	-	1	JR-ZBU1CFPK
with fittings	0.50		1	JR-ZBU1MFPK
	0.75	and a state of the	1	JR-ZBU1FPK
		22.1 mm		
Replacement fitting	gs			
PEEK 1/16" one-piec fittings, 10-32, black	5 5	0 -	5	JR-55021-5
JAM-Nut replacemer nut for bulkhead fitt	5		1	JR-CBN

10-32

SPECIFICATIONS

TUBING OD / THREADS 1/16" 10-32 MATERIAL PEEK PRESSURE RATING <350 bar (5000 psi) (Varies with tubing ID and material)



Reducing unions

HIGH PRESSURE FITTINGS • POLYMERIC



PEEK reducing unions

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

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

Includes fittings.

Tubi	ng OD	Bore (mm)		Qty/pkg	Product No.
1/16" to	1/32"	0.25		1	JR-ZRU1.5FPK
1/8" to 1	I/16"	0.75	27.6 mm	1	JR-ZRU21FPK
PEEK re	placemen	t fittings			
For 1/16	5" to 1/32"	reducing un	ions		
1/16"	One-piec black	ce fitting,		5	JR-55021-5
1/32"	Fingertig	ht nut	10.7 mm	1	JR-ZN.5FPK
1/32"	Ferrule			1	JR-ZF.5PK
For 1/8'	' to 1/16" r	educing unic	ons		
1/8"	Hex-head	d PEEK nut	16 mm	5	JR-ZN2PK-5
1/8"	PEEK ferr	ule		5	JR-ZF2PK-5
1/16"	One-piec black	ce fitting,		5	JR-55021-5



SPECIFICATIONS TUBING OD / THREADS

 1/32"
 6-40

 1/16"
 10-32

 1/8"
 5/16-24

 MATERIAL
 PEEK

 PRESSURE RATING
 <350 bar (5000 psi)</td>

 (Varies with tubing ID and material)
 material)

Tees • Crosses



PEEK tees and crosses

10-32

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

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

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

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

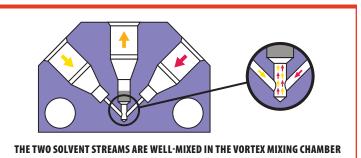
	Bore (mm)	Qty/pkg	With fittings Product No.	Body only Product No.	
Тее	0.25	1	JR-1030	JR-2030	
(19)	0.50	1	JR-1032	JR-2032	
EN	0.75	1	JR-1033	JR-2033	0
Cross	0.25	1	JR-1040	JR-2040	
100	0.50	1	JR-1042	JR-2042	
	0.75	1	JR-1043	JR-2043	0
Replacement fittings					1
PEEK 1/16" one-piece finge fittings, 10-32, black	rtight	5	JR-55021-5	0	

Biocompatible mixing tee

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

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





SPECIFICATIONS

TUBING OD / THREADS 1/16" 10-32 MATERIAL PEEK BODY SIZE 25.0 mm OD 12.0 mm thick PRESSURE RATING <350 bar (5000 psi) (Varies with tubing ID and material)





About PEEK113 Chemical resistance ..110

SEE ALSO Low pressure 1/4-28 tees and crosses52 Low pressure 1/4-28 mixing tees53

SPECIFICATIONS

10-32

TUBING OD / THREADS 1/16" 10-32 MATERIAL PEEK PRESSURE RATING <350 bar (5000 psi) (Varies with tubing ID and material)

Adapters



PEEK adapters

SPECIFICATIONS

MATERIAL PEEK

BORE 0.40 mm

PRESSURE RATING

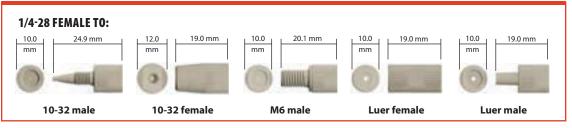
<70 bar (1000 psi) M6 1/4-28 <70 bar (1000 psi) Luer <35 bar (500 psi) (Varies with tubing ID and material)

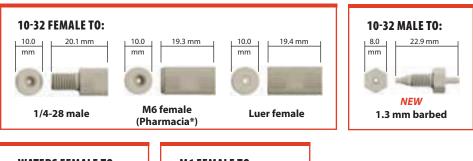
- Connect various combinations of thread types, male and female
- Includes male and female Luer adapters
- Low dead volume
- For any 10-32 high pressure fitting

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

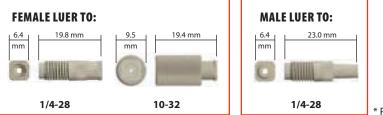
Sold individually.

Description		Product No.	Description		Product No.
1/4-28 female to	10-32 male	JR-0612	10-32 male to	1.3 mm barbed	JR-0691
	10-32 female	JR-062			NEW
	M6 male	JR-0622	Waters female to	10-32 male	JR-0611
	Luer female	JR-0625	M6 female to	10-32 male	JR-5505
	Luer male	JR-0626	Female Luer to	1/4-28	JR-CFLAPK
10-32 female to	1/4-28 male	JR-0617		10-32	JR-ZUFLPK
	M6 female	JR-5595	Male Luer to	1/4-28	JR-CMLAPK
	(Pharmacia*)				
	Luer female	JR-0623			









* Pharmacia is a division of GE Healthcare.

ULTRA-HIGH PRESSURE FITTINGS



STAINLESS STEEL

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

ULTRA-HIGH PRESSURE STAINLESS FITTINGS INDEX

NUTS

Valco nutspage 37
Valco nuts are available for
1/32", 1/16", and 1/8" tubing, in
several lengths.

Rheodyne^{*} compatible nuts 37 These nuts are sized for 1/16" tubing, and come in three lengths.

FERRULES

Valco		
Rheodyne com	npatible.	 38

PLUGS AND CAPS

Plugs		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	38	3
Caps.																										

TEES AND CROSSES

Tees	39
Crosses	39

UNIONS AND REDUCING UNIONS



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



ChromBox kit......105 HPLC parts kit with PEEK and stainless fittings and tubing Fingertight adapters Color-It23 Color-Sleeve.....23 Nanovolume® high pressure fittings..42-45 Stainless starter kits ..104 Tools for fittings . 102-103

Nuts • Valco and Rheodyne

ULTRA-HIGH PRESSURE FITTINGS . STAINLESS STEEL

UHPLC

UHPLC

SPECIFICATIONS

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

MATERIAL Type 303 SS PRESSURE RATING With premium SS tubing and ZF1S6 ferrule: 1375 bar (20,000 psi)

Valco[®] stainless nuts

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

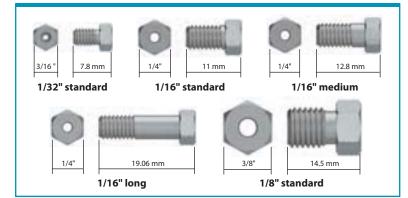
These nuts are for use with all standard Valco internal fittings and most valves. They may be used with fittings from other manufacturers as well. The medium and long types are ideal for metal Valco and Cheminert valves with more than 8 ports, or where the fitting head may be otherwise inaccessible.

These nuts are for use with metal Rheodyne valves. Three different length nuts are available, in order

to accommodate any possible connecting situation. The standard nut is suitable for easily accessible

connections (couplers, detectors, columns, etc.) For very tight and difficult to reach areas, we

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



Rheodyne[®] compatible stainless nuts

Excellent fit to Rheodyne fitting details

recommend the long and extra long nut.

- Different lengths available
- For 1/16" OD tubing

SPECIFICATIONS TUBING OD / THREADS 1/16" 10-32 MATERIAL Type 316 SS PRESSURE RATING <500 bar (7,250 psi) material)

🚹 TECH TIP

MORE INFO

access.

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

About stainless steel..114

Tubing OD Length Product No. 1/16" (Package/5) Short JR-56-5 Long head JR-57-5 Extra long JR-58-5 1/4" 1/4" 1/4" 11.0 mm 14.0 mm 20.0 mm Extra long Short Long head 🔶 SEE ALSO Ferrules Stainless steel ValvTool Color-It fingertight Rheodyne 38 for tightening starter kit.....104 adapters..... 23 hex-head fittings . 102

(Varies with tubing ID and

Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl Ferrules • Plugs



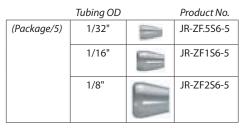
ULTRA-HIGH PRESSURE FITTINGS • STAINLESS STEEL

Valco[®] stainless ferrules

• Excellent fit to Valco fitting details

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

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



Rheodyne[®] compatible stainless ferrules

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

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

Stainless steel plugs

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

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

UHPLC

SPECIFICATIONS TUBING OD / THREADS 1/32" 6-40 1/16" 10-32

.,	
1/8"	5/16-24
MATERIAL	
1/32"	Type 303 SS
1/16"	Type 316 SS
1/8"	Type 303 SS





UHPLC

SPECIFICATIONS TUBING OD For 1/32", 1/16", and 1/8" OD tubing MATERIAL Type 316 SS PRESSURE RATING 1375 bar (20,000 psi) (Varies with tubing ID and material)

For 1/16" OD tubing

SPECIFICATIONS

TUBING OD

MATERIAL Type 316 SS PRESSURE RATING <500 bar (7,250 psi) (Varies with tubing ID and material)

Caps • Tees • Crosses

ULTRA-HIGH PRESSURE FITTINGS • STAINLESS STEEL



SPECIFICATIONS

UHPLC

 TUBING OD / THREADS

 1/32"
 6-40

 1/16"
 10-32

 1/8"
 5/16-24

 MATERIAL
 Type 303 SS

Stainless steel caps

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

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



SPECIFICATIONS

TUBING OD For 1/16" OD tubing BODY DIMENSIONS 23.4 mm OD x 12.7 mm thick

MATERIAL

BodyType 316 SSNutsType 303 SSFerrulesType 316 SS

PRESSURE RATING

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

TEES AND CROSSES

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

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

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

Stainless tees

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

Three nuts and ferrules are included with each tee.

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

10

UHPLC

UHPLC

Stainless crosses

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

Four nuts and ferrules are included with each tee.

Bore (mm) Qty/pkg Product No.

	2010 (1111)	< cy, p	
1/16" cross	0.25	1	JR-ZX1C
	0.50	1	JR-ZX1M
	0.75	1	JR-ZX1
Replacement	nut	5	JR-ZN1-5
Replacement	ferrule	5	JR-ZF1S6-5





ULTRA-HIGH PRESSURE FITTINGS • STAINLESS STEEL

UNIONS AND REDUCING UNIONS

- Easy connection of solvent lines
- Low dead volume

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

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

Stainless unions

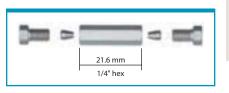
- Choice of four bore sizes
- For 1/16" OD tubing

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

Two nuts and ferrules ship with each union.

Bore (mm) Qty/pkg Product No.

		- / / 5	
1/16" union	0.15	1	JR-ZU1XCS6
	0.25	1	JR-ZU1CS6
	0.50	1	JR-ZU1MS6
	0.75	1	JR-ZU1S6
Replacement nut		5	JR-ZN1-5
Replacement	ferrule	5	JR-ZF1S6-5



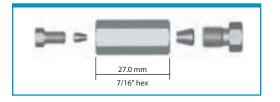
Stainless reducing unions

IMPERIAL

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

Two nuts and ferrules ship with each union.

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



 MATERIAL

 Body
 Type 316 SS

 Nuts
 Type 303 SS

 Ferrules
 Type 316 SS

 PRESSURE RATING
 1375 bar (20,000 psi)

For 1/16" OD tubing

SPECIFICATIONS

TUBING OD

UHPLC

UHPLC

(Varies with tubing ID and material)

SPECIFICATIONS

TUBING OD

For joining 1/8" to 1/16" OD tubing MATERIAL Body Type 316 SS Nuts Type 303 SS Ferrules Type 316 SS PRESSURE RATING 1375 bar (20,000 psi) (Varies with tubing ID and material)

SEE ALSO

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

Reducing unions

ULTRA-HIGH PRESSURE FITTINGS • STAINLESS STEEL

Ø.~

SPECIFICATIONS

 TUBE REDUCING OD

 1/32"
 to
 1.0 mm

 1/16"
 to
 2.0 mm

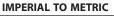
 1/8"
 to
 3.0 mm

 MATERIAL
 Body
 Type 303 SS

Nuts Type 303 SS Ferrules Type 316 SS PRESSURE RATING

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

Stainless reducing unions





Ultra-high pressure

• For 1 mm, 2 mm, and 3 mm OD tubing

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

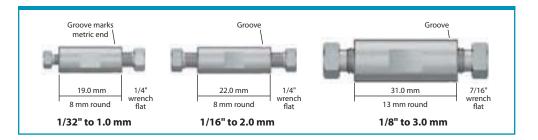
For easy identification, the metric end is marked by a groove.

Two nuts and ferrules ship with each reducing union.

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

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

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





size union 1/4" 1/32" to 1.0 mm JR-096 1/4" 1/16" to 2.0 mm JR-082 7/16" 1/8" to 3.0 mm JR-086

NANOVOLUME® FITTINGS



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

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

HIGH PRESSURE NANOVOLUME® FITTINGS INDEX

1/32" NANOVOLUME® FITTINGS

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

360 MICRON NANOVOLUME® FITTINGS

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

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

For metal tubing, <20K psi45

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

MORE INFO

DISCLAIMER

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

Nanovolume® fittings • for 1/32" tubing

HIGH PRESSURE FITTINGS • NANOVOLUME





SPECIFICATIONS

TUBING OD / THREADS

For 1/32" OD PEEK Nut/ferrule

External nut 1/32"

1/16"

MATERIAL PEEK PRESSURE RATING <350 bar (5,000 psi) (Varies with tubing ID and

material) TOLERANCES ±0.05mm (.002")

6-40

8-36

10-32

NANOVOLUME FITTINGS FOR 1/32" TUBING

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

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

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

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

Nanovolume[®] fittings

FOR 1/32" TUBING

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

	Tubing OD		Product No.
One-piece nut/ferrule	1/32"		JR-C-NNFFPK
External nut	1/32"		JR-C-EN.5FPKB
	1/16"		JR-EN1FPKB
Ferrule, collapsible	1/32"	100	JR-ZGF.5PK
	1/16"	Ale	JR-ZGF1PK

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



Liners for 1/32" connectors

FOR USE WITH FUSED SILICA TUBING

MORE INFO

360 µm Nanovolume® fittings42-45

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

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

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

Sold in packages of 5.

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



HIGH PRESSURE FITTINGS • NANOVOLUME

NANOVOLUME FITTINGS FOR 360 MICRON TUBING

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

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

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

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



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

FOR **360 µm** TUBING

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

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

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



SPECIFICATIONS

TUBING OD / THREADS For PEEK or FS tubing 360 µm 2-56 MATERIAL PEEK

PRESSURE RATING <689.5 bar (10,000 psi)

(Varies with tubing ID and material)

MORE INFO

360 µm OD capillaries Fused silica 18 Stainless 19



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



Grooves on the fitting body indicate the bore size



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

Nanovolume® fittings • for 360 µm tubing

HIGH PRESSURE FITTINGS • NANOVOLUME

For fused silica tubing — 10,000 psi and above

FOR 360 µm TUBING

SPECIFICATIONS

TUBING OD / THREADS For FS tubing

360 µm 2-56 MATERIALS Body HPLC grade SS Nut HPLC grade SS

Ferrule Gold-plated nickel

PRESSURE RATING

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

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

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

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



For metal tubing up to 20,000 psi

FOR 360 µm TUBING

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

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

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



SPECIFICATIONS

TUBING OD / THREADS For metal tubing 360 µm 2-56 MATERIAL HPLC grade SS PRESSURE RATING <1375 bar (20,000 psi) (Varies with tubing ID and material)

	INI	FO	
360 µm OD c	ар	illaries	
Fused silica	i		. 18
Stainless			. 19
1/32" Nanovo	olu	me®	
fittings			. 43
승 CONVE	RS	IONS	
50 µm	=	.002"	
100 µm			
150 μm	=	.006"	
0.25 mm	=	.010"	
0.50 mm	=	.020"	

0.75 mm = .030"

LOW PRESSURE FITTINGS



POLYMERIC

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

LOW PRESSURE POLYMERIC FITTINGS INDEX

NUTS, FERRULES, AND WASHERS FOR 1/4-28 FLAT-BOTTOM FITTING DETAILS
PPS hex head nuts
Flangelesspage 47
Flanged 47
Flangeless ferrules
Collapsible 47
Inverted 47
Flangeless nuts
PPS hex-head 47
PEEK fingertight nuts
Color-coded polyacetal
fingertight nuts
Flanged color-coded polypropylene
fingertight nuts 49

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PERISTALTIC TUBING ADAPTER SET ... 53

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

ADAPTERS, POLYPROPYLENE 54 Includes male and female Luer to barbed, 10-32, and 1/4-28 male and female, and other combinations.

PLUGS, POLYPROPYLENE

10-32 and 1/4-28..... 55

MICRO VALVES FOR LC AND GC55 Simplify your liquid or gas handling application. The unique design of the fitting detail allows a leak-free seal with no potential for rotor damage from overtightening.

FITTING DESIGNS

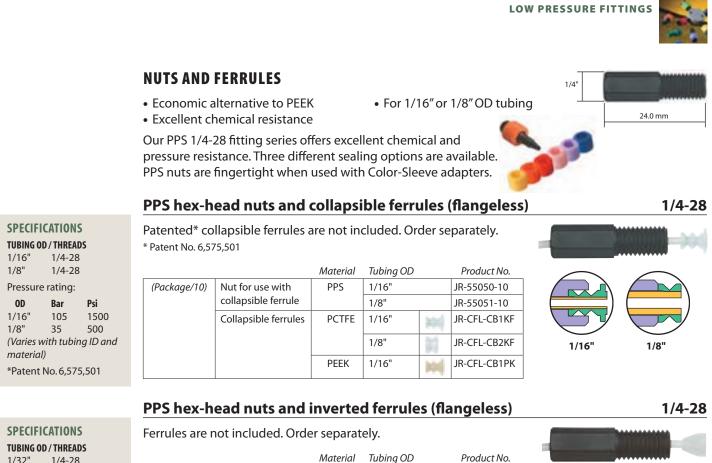
VICI Jour offers two types of low pressure fittings for 1/4-28 flat-bottomed fitting details:

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



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

Nuts, ferrules, and washers • Flangeless and flanged



1/32" 1/4-28 1/16" 1/4-28 1/8" 1/4-28 PRESSURE RATING Psi 0D Bar 1/16" 105 1500 1/8" 35 500 (Varies with tubing ID and material)

(Package/10)	Nut for use with
	inverted ferrule

ge/10)	Nut for use	with	PPS	1/32"	JR-55073-10
	inverted fer	rule		1/16"	JR-55070-10
				1/8"	JR-55071-10
				1.0 mm	JR-55073-10
				2.0 mm	JR-55072-10
	Inverted fer	rules	ETFE	1/32"	JR-032-10
				1/16"	JR-041-10
				1/8"	JR-051-10
	- A		10	1.0 mm	JR-031-10
			- (3)	2.0 mm	JR-042-10
	3.0 mm	2.0 mm	1.0 mm	3.0 mm	JR-049-10



1/4-28

PPS hex-head nuts and washers (flanged connections)

Washers are not included. Order separately.

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



SEE ALSO

SPECIFICATIONS

TUBING OD / THREADS

PRESSURE RATING OD

1/4-28

1/4-28

Psi

1500

500

Bar

105

35

(Varies with tubing ID and

1/16"

1/8"

1/16"

1/8"

material)

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

MORE INFO

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

CHEMICAL RESISTANCE OF PPS

A = suitable B = marginal C = not recommended

Chemi

Acids.

Acids.

Aldeh

Alcoho

* Cond

ical class	Resistance	Chemical class	Resistanc
organic	А	Bases	В
inorganic	B/C*	Esters	А
ydes	А	Halogenated org	. A/B
ols	А	Hydrocarbons	А
centrated h	nalogen acids	Ketones	А
	-		

10.6 mn

15.8 mm

Nuts and ferrules • Flangeless



LOW PRESSURE FITTINGS

PEEK fingertight nuts (flangeless)

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

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

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

Polyacetal flangeless nuts in combination with the inverted ferrule do not require a flanging tool. A

the only part besides the tubing which comes into contact with the fluid stream - the nut is never in

hand-tightening procedure makes leak-free seals. With this fitting system, the inert ETFE ferrule is

Ferrules are not included. Order separately.

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





1/4-28

SPECIFICATIONS							
TUBING OD	/ THREAD	S					
1/16"	1/4-28						
1/8"	1/4-28						
MATERIALS							
Nut	PEEK						
Ferrules	ETFE						
PRESSURE	RATING						
OD	Bar	Psi					
1/16"	105	1500					
1/8"	35	500					
(Varies with tubing ID and							
material)	material)						



Color-coded fingertight nuts (flangeless)

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

contact. Six colors are available.



1/4-28

TUBING OD / THREADS 1/4-28 1/16" 1/8" 1/4-28 MATERIAL Nut Polyacetal Ferrules ETFE PRESSURE RATING OD Psi

SPECIFICATIONS

Bar 1/16" 70 1000 1/8" 35 500 (Varies with tubing ID and material)

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





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



Nuts and unions • Flanged connections

LOW PRESSURE FITTINGS



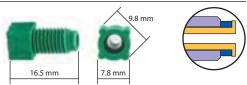
1/4-28

Color-coded fingertight nuts (flanged connections)

SPECIFICATIONS

TUBING OD / THREADS 1/16" 1/4-28 1/8" 1/4-28 MATERIAL Fiberglass-reinforced polypropylene PRESSURE RATING <30 bar (435 psi) (Varies with tubing ID and material)

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



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

.....

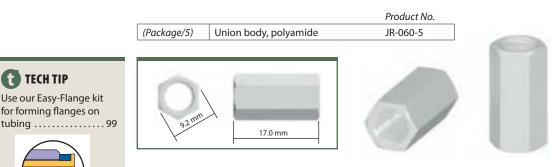
Six colors are available.

				1/16"	1/8"
			Color	Product No.	Product No.
(Package/10)	Nuts		Green	JR-202123-10	JR-202143-10
			Blue	JR-202122-10	JR-202142-10
			Yellow	JR-202124-10	JR-202144-10
			Red	JR-202125-10	JR-202145-10
		(((aug.)	White	JR-201094WH-10	JR-201580WH-10
			Black	JR-201094BK-10	JR-201580BK-10
	1" long nuts		White	JR-202120-10	JR-202119-10
			Black	JR-202118-10	JR-202121-10
	Polypropylene	washer	10	JR-201926-10	JR-201928-10

Union body for flanged connections

- For flanged 1/4-28 flat-bottom connections
- Through bore low pressure union
- For 1/16" or 1/8" OD tubing
- Completely inert and biocompatible
- Flanged fittings are not included.

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







SPECIFICATIONS TUBING OD / THREADS



MATERIAL Polyamide

TECH TIP

1/16"

1/8"

Unions and bulkhead unions • Flangeless



LOW PRESSURE FITTINGS

PEEK unio	ons						1/4	-28	
 For easy co Low dead v For 1/16" o Flat-bottor 	onnection of low p	details	lvent lines	•	16.7 mm				SPECIFICATIONS TUBING OD / THREADS 1/16" 1/4-28 1/8" 1/4-28 MATERIALS Body PEEK
connection of	s facilitate the qui of two pieces of 1/ or-coded adapters	′16" or 1/8	" OD tubin		16.7 mm	5/16" wrench flat			Nut PPS Ferrules ETFE PRESSURE RATING OD Bar Psi
These are av	ailable either as th	ne body or	nly, or com	plete with fitti	ngs.				1/16"10515001/8"35500
• PEEK lo	n fittings includes: ow pressure union flangeless hex-hea	1		erted ferrules eeve adapters Product No.					material)
(Sold	Union, with fittings	1/16"	0.50	JR-1064					
individually)	_		0.75	JR-1068		-			
		1/8"	1.30	JR-1065			-	0	
	Body only	1/16"	0.50	JR-064					
			0.75	JR-068	1	-			
		1/8"	1.30	JR-065	1.00				
		Tubing OD	Product No).	2	10	1		
Replacement	fittings					1			
(Package/10)	PPS flangeless nuts	1/16"	JR-55070-10	,	-				
_		1/8"	JR-55071-10						
	Inverted ETFE	1/16"	JR-041-10						

PEEK bulkhead unions

ferrules

• Panel mounting (10 mm hole required, max 9 mm thick)

1/8"

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

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

JR-051-10

They are sold complete with fittings, and include:

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

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

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

12.7 mm

SPECIFICATIONS TUBING OD / THREADS 1/32" 1/4-28 1/16" 1/4-28 MATERIALS Body PEEK Nut PPS Ferrules ETFE PRESSURE RATING OD Bar Psi 1/16" 100 100

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

SEE ALSO

Color-coded fingertight flanged nuts49 Color-Sleeve adapters, in 12 colors23 High pressure PEEK unions......22 PPS hex-head flanged nuts47

TECH TIP

	TUBING 1/32" 1/16" 1/8"
	MATERIA
on a bracket.	Body
on a blacket.	Nut
	Ferrule

1/4-28

Reducing unions • Flangeless

IMPERIAL TO METRIC 1/4-28

LOW PRESSURE FITTINGS



SPECIFICATIONS

TUBING OD / THREADS 1/32" 1/4-28 1/16" 1/4-28 1/8" 1/4-28 MATERIALS Body PEEK Nuts PPS Ferrules ETFE PRESSURE RATING ≤48 bar (700 psi) (Varies with tubing ID and

material)

PEEK reducing unions

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

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

A reducing union with fittings includes:

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

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

		Material	Tubing OD	Product No.			
Replacement fittings							
(Package/10)	Nut for use with	PPS	1/32"	JR-55073-10			
	inverted ferrule		1/16"	JR-55070-10			
			1/8"	JR-55071-10			
			1.0 mm / 1/32"	JR-55073-10			
			2.0 mm	JR-55072-10			
	Inverted ferrules	ETFE	1/32"	JR-032-10			
			1/16"	JR-041-10			
			1/8"	JR-051-10			
	- A	173	1.0 mm	JR-031-10			
		- (3)	2.0 mm	JR-042-10			
	3.0 mm 2.0 mm	1.0 mm	3.0 mm	JR-049-10			



PEEK reducing unions

- Connects 1/4" and 1/8" OD tubing
- Completely inert and biocompatible 19.1 mm
- Low dead volume

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

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

Ferrule

		Bore (mm)	Tubing OD		Product No.	
(Sold individually)	Reducing union with fittings	1.5	1/4" to 1/8"		JR-CU4LPK	
Material Tubing OD Product No.						
Replacement fittings						
(Sold	Flangeless nut,	White prop	ylene 1/8"		JR-CFL-2W-S	
individually)	white propylene	PPS	1/4"		JR-CFL-4PPS	

PEEK

PCTFE

TECH TIP

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



1/8" 1/4" 1/2-20 MATERIALS Body PEEK Nuts PP 1/8" 1/4" PPS Ferrules

1/8" PEEK 1/4" PCTFE

material)

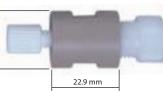
SPECIFICATIONS

TUBING OD / THREADS 1/4-28

PRESSURE RATING

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

IMPERIAL 1/2-20 to1/4-28



JR-CFL-CB2PK-S

JR-CFL-CB4KF-S

1/8"

1/4"

Tees, crosses, and manifolds



LOW PRESSURE FITTINGS

PEEK tees, crosses, and manifolds

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

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

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

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

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

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

Sold individually.

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

Tubing OD	Product No
rubing OD	FIGUACTING

Replacement	fittings		
(Package/10)	PPS flangeless nuts	1/16"	JR-55070-10
		1/8"	JR-55071-10
	Inverted ETFE	1/16"	JR-041-10
	ferrules	1/8"	JR-051-10

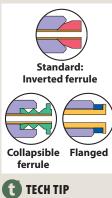


1/4-28





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



SEE ALSO

BODY SIZES

Manifolds 5 ports

9 ports

Tees

Crosses

Diameter

25.0 mm

25.0 mm

22.2 mm

22.2 mm

Thickness

12.0 mm

12.0 mm

17.1 mm

28.6 mm

Color-Sleeve adapters,
in 12 colors 23
High pressure
PEEK tees
PPS hex-head
flanged nuts47

52 | www.vici-jour-com | VICI AG International

Mixing tees • Peristaltic tubing adapter

LOW PRESSURE FITTINGS

PEEK mixing tees

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

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

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

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

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

Sold individually.

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

Tubing OD Product No.

Replacement fittings			
(Package/10)	PPS flangeless nuts	1/16"	JR-55070-10
		1/8"	JR-55071-10
	Inverted ETFE	1/16"	JR-041-10
	ferrules	1/8"	JR-051-10

44.45 mm

Peristaltic tubing adapter set

- For connecting soft tubing to PTFE and PTFE-like tubing
- Biocompatible
- Low dead volume



TUBING OD / THREADS 1/4-28 1/16" 1/8" 1/4-28 MATERIALS Body PEEK **Bushings PPS** PPS Nut Ferrules ETFE BORE 1.50 mm **BODY SIZE** 28 mm long, 12 mm diameter.

SPECIFICATIONS

SPECIFICATIONS

TUBING OD / THREADS

1/4-28

1/4-28

PEEK

PPS

Bar

105

35

(Varies with tubing ID and

Volume 0.75 mm 25 ul Psi

1500

500

1/16"

1/8"

Body

Nut

OD

1/16"

material)

Bore

MIXING VOLUME

1.50 mm 100 µl

1/8"

MATERIALS

Ferrules ETFE

PRESSURE RATING





• Works with peristaltic tubing up to 4.50 mm OD • For 1/16" and 1/8" PTFE and PTFE-like tubing

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

The adapter includes:

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

Sold individually.

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





1/4-28

Adapters

LOW PRESSURE FITTINGS

Polypropylene adapters

	Inlet		Outlet			Product No.
(Package/10)	Male	Luer	Barbed	1/16"		JR-070211-10
				3/32"		JR-070212-10
				1/8"		JR-070213-10
			Male	10-32		JR-070224-10
				1/4-28	THE OWNER WATER	JR-070225-10
				1/4-28 UNF BST	-	JR-070226-10
		1/4-28	Barbed	1/16"	83-	JR-071123-10
				1/8"		JR-071323-10
		10-32	Barbed	1/16"	2)-	JR-071124-10
				1/8"	10)min	JR-071324-10
	Female	Luer	Barbed	1/16"	100-	JR-070111-10
				3/32"		JR-070112-10
				1/8"		JR-070113-10
			Female	Luer		JR-070101-10
			Male	10-32	(CD)	JR-070124-10
				1/4-28		JR-070123-10
	Straight t tube fittir		Barbed to	1/16"		JR-073210-10
		'Y	barbed	3/32"		JR-073220-10
				1/8"		JR-073230-10
(Sold individually)	Male	1/4-28 UNF BST	Barbed	1/16"		JR-075012
	Flat bottom	1/4-28 UNF BST	Barbed	1/8" ID		JR-075013

SPECIFICATIONS MATERIAL Polypropylene

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

Plugs • Micro valves for GC and LC

LOW PRESSURE FITTINGS

1/4-28 or 10-32



Polypropylene plugs

SPECIFICATIONS THREADS 10-32 or 1/4-28 MATERIAL Polypropylene

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

Micro valves for GC and LC

SPECIFICATIONS

 TUBING OD / THREADS

 1/16"
 1/4-28

 1/8"
 1/4-28

 DIMENSIONS
 1/4-28

 Bore
 1.50 mm

 Height
 44.70 mm

 Diameter
 27.94 (without fittings)

MATERIALS

Wetted parts			
	PEEK, PTFE		
Body	POM		
Nuts	PPS		
Ferrules	PCTFE		

PRESSURE RATING

200 psi gas Tested with helium using 1/16" OD x 0.84 mm ID PTFE tubing with PEEK collapsible ferrules

200 psi liquid Tested with isopropanol using 1/8" OD x 0.75 mm ID PTFE tubing with CTFE collapsible ferrules

• Compact 1" design

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

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

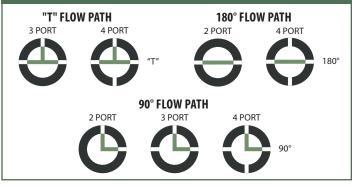
Includes flangeless PPS fittings and CTFE collapsible ferrules for 1/8" OD tubing.

Sold individually.

	Product No.
3 ports	JR-660100
4 ports	JR-660110
2 ports	JR-660200
4 ports	JR-660210
2 ports	JR-660300
3 ports	JR-660310
4 ports	JR-660320
	4 ports 2 ports 4 ports 2 ports 3 ports

		Material	Tubing	OD ر	Product No.
Replacement	fittings				
(Package/10)	Nut for use with	PPS	1/16"		JR-55050-10
	collapsible ferrule		1/8"		JR-55051-10
	Collapsible ferrules	PEEK	1/16"	M	JR-CFL-CB1PK
		CTFE	1/8"	11	JR-CFL-CB2KF

FLOW PATH CONFIGURATIONS



SEE ALSO



TECH TIP

Use our impermeable tubing to avoid gas diffusion in the solvent lines17

TECH TIP

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





1/4-28

FILTERS



METAL AND POLYMERIC

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

FILTERS INDEX

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Last Drop biocompatible
glass filter 58
No-Met biocompatible 59
Filter/spargers
Last Drop 60
Stainless steel61

In-line filter cartridges

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

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

		Maximum		
	Pore size	flow rate *	Product No.	6
(Package/5)	2 µm	30 ml/min	JR-CFE-S2-5	
	10 µm	30 ml/min	JR-CFE-S10-5	10
	75 µm	30 ml/min	JR-CFE-S75-5	

HIGH PRESSURE FILTERS

LOW PRESSURE

PEEK
In-line filter kit 62
Sure-Guard 62
Precolumn filter kit63
Replacement frits 63
Stainless
UHPLC precolumn filter 64
Inline filter65
Replacement frits 64-65

SPECIFICATIONS

MATERIALS Cartridge PTFE/ PCTFE Filter screen: 316 SS DIMENSIONS 1/4-28 detail OD 5.20 mm Thickness 2.03 mm Bore 0.8 mm

Filter surface diameter 2 mm **TOLERANCES** ±0.05 mm (.002")

NOTES

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

TECH TIP

DISCLAIMER

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

Mobile phase filters • Low pressure



LOW PRESSURE

SPECIFICATIONS

MATERIALS

Body PTFE Frits PTFE/ 316 SS/PE

CONNECTIONS

Stepped tubing version is for 1.5, 2.2, and 3.5 mm ID tubing

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

Last Drop mobile phase filters

- No loss of mobile phase
- Biocompatible PTFE frits or stainless steel frits
- Three porosity options

SPECIFICATIONS

Frits PTFE/316 SS

For 1/8" OD tubing

MATERIALS

TUBING OD

Body PTFE

• Two connector types: stepped tubing and 1/4-28 fitting



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

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

Connector typ	e:	Maximum	Stepped tubing connector	Fitting connector	.	_	
Filter material	Pore size	flow rate *	Product No.	Product No.			
PTFE	2.5 μm	1.2 ml/min	JR-9000-0520	JR-9000-0520F	23.5 mm	- A	
	5 µm	2.6 ml/min	JR-9000-0521	JR-9000-0521F			(418)
	10 µm	3.5 ml/min	JR-9000-0522	JR-9000-0522F			
Polyethylene	10 µm	11 ml/min	JR-9000-0522H	JR-9000-0522HF	_	22.0 mm	1000
Stainless	2 µm	28 ml/min	JR-9000-0530	JR-9000-0530F	- CONT.	22.0 1111	- 1
	5 µm	30 ml/min	JR-9000-0531	JR-9000-0531F			-
	10 µm	30 ml/min	JR-9000-0532	JR-9000-0532F			

NOTES

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

TECH TIPS

 Economy Last Drop mobile phase filters are easy to replace - easy to clean. Use ultrasound or replace with a new filter.

 Connect the Economy Last Drop filter with 1/8" OD tubing: ETFE tubing......13 FEP tubing.....16 PFA tubing.....13 PTFE tubing14-15

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



Last Drop mobile phase filter/spargers 60

Economy Last Drop mobile phase filters

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

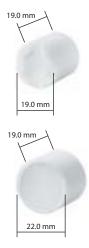
Economy mobile phase filters come in two body diameters, for various dimensions of bottle necks.

The filter body is made of PTFE, which is resistant to virtually all common mobile phases.

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



LOW PRESSURE





Last Drop biocompatible glass mobile phase filters LOW PRESSURE

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

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



SPECIFICATIONS MATERIALS Body Glass Frit Glass TUBING OD For use with 1/8" tubing

Includes 1/8" tubing connector.

		Maximum	
Frit material	Pore size	flow rate *	Product No.
Glass	1.0 - 1.6 μm	30 ml/min	JR-9000-0520B
	10-16 µm	50 ml/min	JR-9000-0526G
	40-100 μm	200 ml/min	JR-9000-0528G

For tubing	Size	Qty/pkg	Product No.	
Replacement	connectors			
1/8" OD	6.8 mm	1	JR-9000-0525GC	Base
				and the second





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



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

ETFE tubing13
FEP tubing16
PFA tubing13
PTFE tubing14-15

Mobile phase filter • Low pressure



LOW PRESSURE

SPECIFICATIONS MATERIALS

Adapter PEEK Fitting PEEK Ferrule ETFE **TUBING OD** For 1/8" OD tubing

No-Met biocompatible mobile phase filters



- Inert and biocompatible
- Replacement filters
- Also recommended for IC

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



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

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

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



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

		Maximum			
Filter material	Pore size	flow rate *	Product No.		
Replacement element					
PTFE	20 µm	2.2 ml/min	JR-32172		
Polyethylene	<20 µm	500 ml/min	JR-32179		



Last Drop filter/sparger

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

Spargers have a porosity of 10 microns.

The filter/sparger includes:

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

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



LOW PRESSURE

SPECIFICATIONS

MATERIALS Body PTFE Frits PTFE/ 316 SS/PE Stepped tubing connector PEEK PEEK Nut Ferrule ETFE CONNECTIONS Stepped tubing connector for 1.5, 2.2, and 3.5 mm ID tubing PEEK 1/4-28 nut with ETFE ferrule for 1/8" OD tubing



Filter/spargers • Low pressure



LOW PRESSURE

Stainless steel mobile phase filter/helium sparger

SPECIFICATIONS

MATERIALS	
Body	SS316
Pipe	SS316
Pipe adapter	PTFE
Fitting adapter	PEEK
Fittings	PEEK
Ferrules	ETFE

- Ideal for helium sparging
- Different porosity options
- Fitting and pipe connectors



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

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

Fitting	Tubing/		Maximum		
type	pipe size	Pore size	flow rate *	Product No.	
1/4-28	1/16"	2 µm	35 ml/min	JR-367016-2	
		10 µm	35 ml/min	JR-367016-10	9.5 mm
		20 µm	35 ml/min	JR-367016-20	25.0 mm
					45.0 mm
					45.0 mm
	1/8"	2 µm	35 ml/min	JR-367008-2	
		10 µm	100 ml/min	JR-367008-10	
		20 µm	120 ml/min	JR-367008-20	
Stepped	1/16",	2 µm		JR-8000-0495-2	9.5 mm
	3/32",	10 µm		JR-8000-0495-10	5.2 mm
	and 3.76 mm	20 µm		JR-8000-0495-20	
	tubing				45.0 mm
	ID				
Pipe	1/8"	2 µm	95 ml/min	JR-3675-2	
					17.2 mm
					and the second se
					20.5 mm
					42.5 mm
ĺ	1/8"	2 µm	50 ml/min	JR-3678-2	
		25 µm	100 ml/min	JR-3678-25	And the second se
					22.0 mm
					38.0 mm
					65.0 mm

TECH TIPS

- We recommend metal free PTFE filters for sensitive biochromatography applications where metal surfaces may corrode or interact with samples.
- We recommend our impermeable tubing to prevent "regassing" of helium-degassed solvents.



Last Drop mobile phase filters57

Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl PEEK in-line filter kits • High pressure



PEEK in-line filter kit

- Replaceable metal-free polyetheylene frits and biocompatible titanium frits
- 100% biocompatible
- Minimal hold-up volume
- Different porosity options

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

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

Sold individually.

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



Sure-Guard in-line filter kit

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

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

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

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



HPLC

SPECIFICATIONS

MATERIALS Body PEEK Titanium, Frit Polyethylene

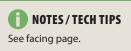
BORF 0.25/0.4 mm **TUBING OD / THREADS** 1/16" 10-32 PRESSURE RATING <350 bar (< 5000 psi)

HPLC

SPECIFICATIONS

MATERIALS Body: PEEK Frit: Stainless, Titanium

BORE 0.4 mm THREADS 10-32 female to 10-32 male PRESSURE RATING <350 bar (< 5000 psi)



Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl PEEK precolumn filter kit • High pressure



HPLC

SPECIFICATIONS

MATERIALS Body PEEK Frit Titanium, Polyethylene

BORE 0.25/0.4 mm TUBING OD / THREADS 1/16" 10-32 PRESSURE RATING <350 bar (< 5000 psi)

- **PEEK precolumn filter kit**
- 100% biocompatible
- Minimal hold-up volume
- Replaceable metal-free polyetheylene frits and biocompatible titanium frits encased in PEEK
- Different porosity options

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

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

Sold individually.

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



NOTES

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



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

NOTE

Polyethylene frits are for single use only.



Calculation of frit volume109 PEEK-encased stainless frits......88

Replacement frits FOR PEEK IN-LINE AND PRECOLUMN FILTER KITS

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

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



Stainless steel precolumn filter

- (U)HPLC
- Mimimized hold-up volume
- Four porosity options
- Fewer connections compared to in-line filters
- Works with 1/16" column connections from all manufacturers

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

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

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

		Internal		
Bore size	Pore size	volume		Product No.
0.13/0.15 mm	0.2 μm	0.59 μL		JR-69230-02
	0.5 μm	0.61 μL		JR-69230-05
	2 µm	0.66 µL		JR-69230-2
	5 µm	0.68 μL	46.5 mm	JR-69230-5

Replacement PEEK-encased SS frits

		Frit	
	Pore size	volume	Product No.
(Package/5)	0.2 um	0.11 uL	JR-1110-02P-5
	0.5 um	0.13 uL	JR-1110-05P-5
	2 um	0.18 uL	JR-1110-2P-5
	5 um	0.20 ul	JR-1110-5P-5



UHPLC

SPECIFICATIONS

MATERIALS
Body 316 SS
Frit PEEK-encased SS
THREADS
10-32 Female for inlet
Male for outlet
PRESSURE RATING
With ZN1 nut and ZF156

ferrule: up to 1375 bar (20,000 psi)

Stainless steel filters • UHPLC

UHPLC



SPECIFICATIONS

MATERIALS Body 316 SS Frit **PEEK-encased SS** BORE 0.25 or 0.75 mm THREADS 10-32 female to 10-32 male

PRESSURE RATING With ZN1 nut and ZF1S6 ferrule: up to 1375 bar (20,000 psi)

Stainless steel in-line filter

- (U)HPLC
- Minimized hold-up volume
- Two bores for analytical and
- semi-prep flow rates
- Four porosity options

Sold individually.

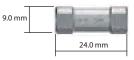


The stainless steel in-line filter has virtually no hold-up volume and can be used in various applications without significant band broadening or loss of efficiency.

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

With minimal dead volume and available frit porosities of 0.2, 0.5, 2 or 5 µm, these in-line filters are the ideal column protectors.

		Internal	
Bore size	Pore size	volume	Product No.
0.25 mm	0.2 μm	0.2 μL	JR-68230-02
	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



Replacement PEEK-encased SS frits

FOR FILTER ABOVE

			Frit		
	Bore size	Pore size	volume	Product No.	
(Package/5)	0.25 mm	0.2 μm	0.11 μL	JR-1110-02P-5	
		0.5 μm	0.13 μL	JR-1110-05P-5	
		2 µm	0.18 μL	JR-1110-2P-5	
		5 µm	0.20 μL	JR-1110-5P-5	
	0.75 mm	0.5 μm	0.55 μL	JR-1111-05P-5	
		2 µm	0.74 μL	JR-1111-2P-5	
		5 µm	0.80 µL	JR-1111-5P-5	
		10 µm	0.87 μL	JR-1111-10P-5	





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



SAFETY PRODUCTS



AND MOBILE PHASE HANDLING SYSTEMS

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

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

SAFETY PRODUCTS INDEX

VICI SAFETY FILTERS

Air inlet valves	page 67
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Exhaust filter kits NEW .	

SPECIAL APPLICATION FILTERS

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CAPS

Safety cap kits NEW
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DIN50 and GL45 threads
VICI cap kits74
VICI caps72-73
GL38, DIN50, GL45, and S40 threads
Waste caps
GL45, B53, B83, GLS80, DIN60, S51,
and S61 threads
Multi caps NEW 80-82
GL38, GL45, DIN50, S51, B53, DIN60,
S61, GLS80, and B83 threads
Eco cap 83
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SAFETY-COATED GLASS BOTTLES 84

Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl Safety air inlet valves • Safety air outlet filters



SPECIFICATIONS				
CONNECT	IONS			
Valve to cap	1/4-28			
Filter	Female Luer			
MATERIALS				
Housing	PP (Polypropylene)			
Filter	Cellulose			
O-ring	NBR (O-ring is not a wetted part)			

Safety air inlet valves

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

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

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

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

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

Description		Product No.
With 4 mm filter	(CEEL)	JR-S-20003
With 15 mm filter	(inter-	JR-S-20009
Without filter		JR-S-20006
Spare parts		
Replacement cellulose filter	0.2 μm x 4 mm	JR-S-20007
	0.2 μm x 15 mm	JR-S-20008



🚺 TECH TIPS

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



SPECIFICATIONS		
CONNECTIONS		
Valve to cap	1/4-28	
Filter	Female Luer	
MATERIALS		
Housing	PP (Polypropylene)	
Filter	Cellulose	
O-ring	NBR (O-ring is not a wetted part)	

Safety air outlet valves

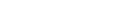
The VICI safety air outlet valve regulates the pressure during helium sparging.

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

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







Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl Safety exhaust filters



SAFETY EXHAUST FILTERS

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

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

With 65 g of absorbent, our filters have a larger capacity than competing brands. Typical lifetime is up to 10 months* for methanol and 8 months* for acetonitrile.

The optional *NEW* break-through detector recognizes trace amounts of acetone, acetonitrile, aliphatic and aromatic hydrocarbons, ethanol, ethyl acetate, methanol, methylene chloride and THF.

When the absorbent is saturated, break-through is indicated by a color change in the detector from orange/pink to red. A small charcoal filter absorbs the vapors after they pass the detector.

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

SPECIFICATIONS

1/4-28

POM

PC

NBR

Polyethylene

(O-ring is not a

CONNECTIONS

MATERIALS

Filter

housing Detector

housina

Frits

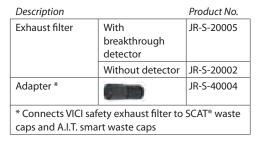
O-ring



DETECTOR IS UNEXPOSED (Color is orange/pink)



Safety exhaust filters



NEW Replacement exhaust filter kits

Includes three exhaust filters, three breakthrough detectors (if ordered), and a carrying case.

Description		Product No.
Exhaust filter kit		JR-S-35
Kit includes:	Qty	Product No.
Exhaust filters with breakthrough detectors	3	JR-S-20005
Carrying case	1	JR-S-35L
Description		Product No.
Exhaust filter kit without detectors		JR-S-36
Kit includes:	Qty	Product No.
Exhaust filters	3	JR-S-20002
without breakthrough detectors		
Carrying case	1	JR-S-35L



EXHAUST FILTER WITHOUT DETECTOR

EXHAUST FILTER WITH NEW DETECTOR

We highly recommend using the exhaust filter with a breakthrough detector!

1/4-28

1/4-28

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



• Larger capacity = longer lifetime = lower costs

• As a general rule, halving the flow rate doubles the lifetime at constant composition and temperature. Doubling the flow rate halves it.

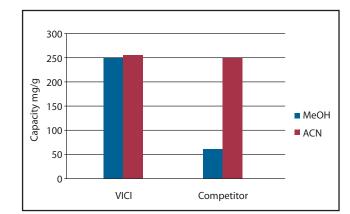


Carbon dioxide filter...85 Humidity filter.....85 Safety caps.....70-71 VICI caps.....72-74



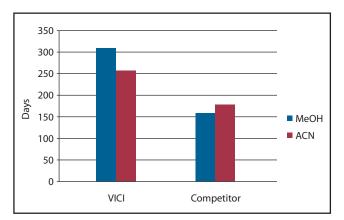
Data on safety exhaust filters

SAFETY PRODUCTS



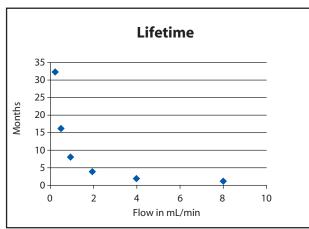
OPTIMIZED ADSORBENT OF SAFETY EXHAUST FILTERS

In our continuous work to improve our products, VICI has optimized the adsorbent for increased capacity. Each detector contains 65 g of adsorbent which guarantees a prolonged life time of the VICI exhaust filter.



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

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



SAFETY EXHAUST FILTER LIFETIME

The lifetime of the filter depends on:

- Composition of the mobile phase
- Flow rate
- Ambient temperature: higher temperature leads to increased vapor pressure of the volatile compound

The theoretical lifetime of an exhaust filter, depending on the flow rate, is shown in the chart at left.

TECH TIP

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



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

For more information, contact Tech Support – support@vici.ch.

Safety caps



SAFETY CAPS

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

- Stopcocks rated up to 72 psi gas at 25°C
- Prevent evaporation of volatile compounds
- Ideal for delivery of mobile phase or collection of waste LC solutions
- 2, 3, or 4 ports with 1/4-28 threads for 1/8" or 1/16" tubing
- Optional bottom-sealing barbed adapter to connect 1/8" (3.2 mm) ID tubing (shown at right – order separately from "Spare Parts", page 71)

Safety cap / bottle kit

INCLUDES

- 1 safety cap, GL45 thread, with fittings
- 1 safety-coated glass bottle (1L or 2L)
- 3 m, PFA tubing
- 1 No-Met mobile phase filter, 20 µm
- Additional nuts and ferrules for the bottom side connections



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

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

Bottle size:		1 Liter	2 Liters
	No. of ports	Product No.	Product No.
Safety cap kit, GL45	2	JR-S-11111	JR-S-11211
	3	JR-S-11112	JR-S-11212
	4	JR-S-11113	JR-S-11213

Product No.

For improved chemical resistance, or	der:	
O-ring, FEP-coated, GL45	JR-S-40008	



Spare parts FOR SAFETY CAP/BOT			BOTTLE KITS	
			Qty/pkg	Product No.
1/4-28 flangeless nuts	PPS	1/16" OD	10	JR-55070-10
		1/8" OD	10	JR-55071-10
Inverted ferrules	ETFE	1/16" OD	10	JR-041-10
		1/8" OD	10	JR-051-10
Safety-coated bottle with solid cap		1 Liter	1	JR-9000-0005
		2 Liters	1	JR-9000-0010
Plug, 1/4-28 , PEEK		1	JR-409	
Barbed hose adapter for 1/8" ID tubing		1	JR-075013	
Color-Sleeve adapters, 12 colors (2 each)		24	JR-5508X-24	
No-Met biocompatible mobile phase filter,		1	JR-32174	
economy slip-on connection, 20 µm pore				
PFA tubing, 1/8" x 1.59 mm x 3m		1	JR-T-4003-M3	

GL45 THREADS

SPECIFICATIONS			
CONNECT	CONNECTIONS		
	1/4-28		
MATERIA	MATERIALS		
Closure	PP (Polypropylene)		
Insert	PTFE		
Stopcock	PCTFE		
O-ring	EPDM (optional FEP-coated)		
Nuts	PPS		
Ferrules	ETFE		
Sleeves	PP		
Bottle	Borosilicate 3.3, safety coated		
Filter	Polyethylene		



Safety caps and kits..71 Chemical resistance ...110



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

SEE ALSO

Color-Sleeve adapters.....23



No-Met mobile phase filters 59 PFA tubing13 Safety-coated bottles (for additional sizes) . 84 Safety air inlet valves ... 67

Safety caps



GL45 THREADS

• 1 cap, GL45 thread, with

• 1 set: 1/16" nut/ferrule/ color-sleeve adapter

INCLUDES

stopcocks

• 1 O-ring, EPDM

• 1, 2, or 3 sets: 1/8" nut/ferrule/ color-sleeve adapter Additional nuts and ferrules for the bottom side connections

Safety cap

SPECIFICATIONS

CONNECTIONS

1/4 20
1/4-78

1/4-20		
MATERIALS		
Closure	PP (Polypropylene)	
Insert	PTFE	
Stopcock	PCTFE	
O-ring	EPDM (optional FEP-coated)	
Nuts	PPS	
Ferrules	ETFE	
Sleeves	РР	



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

GL45 safety caps seal to the bottle with an O-ring* (EPDM) which is resistant to commonly used HPLC solvents.

	No. of ports	Product No.
Safety cap, GL45	2	JR-S-11011
	3	JR-S-11012
	4	JR-S-11013

If improved chemical resistance is required (such as for halogenated hydrocarbons), we offer an FEP-coated O-ring. Order separately.

Product No.

For improved chemical resistance, order:	
O-ring, FEP-coated, GL45	JR-S-40008

Safety cap

SPECIFICATIONS

CONNECTIONS

1/4-28		
MATERIALS		
Closure	PP (Polypropylene)	
Insert	PTFE	
Stopcock	PCTFE	
O-ring	EPDM/NBR	
Nuts	PPS	
Ferrules	ETFE	
Sleeves	PP	

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

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

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

DIN50 THREADS

INCLUDES

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

Additional nuts and ferrules for the bottom side connections



FOR SAFETY CAPS Product No. Qty/pkg PPS 1/16" OD JR-55070-10 1/4-28 flangeless nuts 10 1/8" OD JR-55071-10 10 Inverted ferrules FTFF 1/16" OD 10 JR-041-10 1/8" OD 10 JR-051-10 JR-075013 Barbed hose adapter for 1/8" ID tubing 1 JR-5508X-24 Color-Sleeve adapters, 12 colors (2 each) 24 JR-T-4003-M3 PFA tubing, 1/8" x 1.59 mm x 3m 1

NOTE One port must be

reserved for the exhaust filter or the air inlet valve.



VICI caps



VICI CAP KITS

HPLC systems use up to 4 different mobile phases. We offer two safety cap kits for use with (up to quaternary) gradient HPLC systems.

NEW VICI cap kit

INCLUDES

- 4 VICI caps, 3 ports, GL45 thread, with fittings
- 4 Air inlet valves with 4 mm filters
- 4 PP plugs
- Carrying case

Description		Product No.
VICI cap kit		JR-S-31
Kit includes:	Qty	Product No.
VICI caps, GL45, three ports	4	JR-S-11002
Air inlet valves with 4 mm filters	4	JR-S-20003
PP plugs	4	JR-201999
Carrying case	1	JR-S-31L



GL45 THREADS

SPECIFICATIONS			
CONNECTIONS			
1/4-28			
MATERIALS			
Closure	PP (Polypropylene)		
Insert	PTFE		
O-ring	EPDM		
Nuts	PPS		
Ferrules	ETFE		
Sleeves	PP		
Filter	Polyethylene		

NEW VICI cap kit

INCLUDES

- 3 VICI caps, 2 ports, GL45 thread, with fittings
- 1 VICI cap, 3 ports, GL45 thread, with fittings
- 4 Air inlet valves with 4 mm filters
- 1 PP plug
- Carrying case

Product No. Description VICI cap kit JR-S-32 Kit includes: Product No. Qty VICI caps, GL45, two ports 3 JR-S-11001 JR-S-11002 VICI cap, GL45, three ports 1 Air inlet valves 4 JR-S-20003 with 4 mm filters PP plug 1 JR-201999 Carrying case 1 JR-S-31L

GL45 THREADS

SPECIFICATIONS		
CONNECTIONS		
1/4-28		
MATERIALS		
Closure	PP (Polypropylene)	
Insert	PTFE	
O-ring	EPDM	
Nuts	PPS	
Ferrules	ETFE	
Sleeves	РР	
Filter	Polyethylene	



VICI caps





VICI CAPS

VICI caps seal to the bottle with an O-ring which is resistant to commonly used HPLC solvents. Unused ports should be closed with plugs, available in PEEK or polypropylene.

- Prevent evaporation of volatile compounds
- 2, 3, or 4 ports with 1/4-28 threads for 1/8" or 1/16" tubing
- 6 or 7 ports available in some models
- Optional barbed adapter JR-075013 to connect 1/8" (3.2 mm) ID tubing (order from "Spare Parts", page 75).

VICI cap / bottle kit

INCLUDES

- 1 VICI cap, GL45 thread, with fittings
- 1 safety-coated glass bottle (option: 1L or
- 2L) • 3 m, PFA tubing
- 1 No-Met mobile phase filter, 20 µm

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

Bottle size:	No. of ports	1 Liter Product No.	2 Liters Product No.
VICI cap kit, GL45	2	JR-S-11101	JR-S-11201
	3	JR-S-11102	JR-S-11202
	4	JR-S-11103	JR-S-11203

Product No.

For improved chemical resistance, or	der:
O-ring, FEP-coated, GL45	JR-S-40008



SPECIFICATIONS			
CONNECT	CONNECTIONS		
	1/4-28		
MATERIALS			
Closure	PP (Polypropylene)		
Insert	PTFE		
O-ring	EPDM (optional FEP-coated)		
Nuts	PPS		
Ferrules	ETFE		
Sleeves	PP		
Bottle	Borosilicate 3.3, safety coated		
Filter	Polyethylene		

GL45 THREADS

VICI cap

INCLUDES

- 1 cap, GL45 thread
- 1 O-ring, EPDM
- 1 set: 1/16" nut/ferrule/ color-sleeve adapter

• 1, 2, 3, 5, or 6 sets: 1/8" nut/ferrule/ color-sleeve adapter

- Fits all bottles or canisters with GL45 thread
- 2, 3, 4, 6, and 7 ports with 1/4-28 threads for 1/8" or 1/16" tubing

GL45 safety caps seal the bottle with an O-ring behind a PTFE lip; therefore the O-ring is not a wetted part. If improved chemical resistance is required (e.g. for halogenated hydrocarbons), order an FEP-coated O-ring separately.

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

For improved chemical resistance, order: O-ring, FEP-coated, GL45 JR-S-40008





6 port 7 port **PTFE CAP INSERTS**

GL45 THREADS

SPECIFICATIONS		
CONNECTIONS		
1/4-28		
MATERIALS		
Closure	PP (Polypropylene)	
Insert	PTFE	
O-ring	EPDM (optional FEP-coated)	
Nuts	PPS	
Ferrules	ETFE	
Sleeves	PP	





re-gassing of the mobile phase.

VICI caps



VICI cap

INCLUDES

- 1 cap, S40 thread
- 1 set: 1/16" nut/ ferrule/ color-sleeve adapter
- 2 sets: 1/8" nut/ferrule/ color-sleeve adapter



 Fits all bottles with S40 thread 	 Fits all bottles v 	with S40	thread
--	--	----------	--------

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

The latest addition to the Jour Safety product line, the S40 VICI cap seals to the bottle with an O-ring (EPDM) which is resistant to commonly used HPLC solvents.

	No. of ports	Product No.
VICI cap, S40	3	JR-S-14002

SPECIFI	SPECIFICATIONS		
CONNECT	CONNECTIONS		
	1/4-28		
MATERIA	MATERIALS		
Closure	PP* (Polypropylene)		
Insert	PTFE		
O-ring	EPDM		
Nuts	PPS*		
Ferrules	ETFE		
Sleeves	PP*		
*not a wetted part			

VICI cap

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



- Fits all bottles or canisters with DIN50 thread
- 2, 3, or 4 ports with 1/4-28 threads for 1/8" or 1/16" tubing

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

	No. of ports	s Product No.
VICI cap, DIN50	2	JR-S-15001
	3	JR-S-15002
	4	JR-S-15003

4.4.

DIN50 THREADS

CONNECTIONS		
1/4-28		
MATERIALS		
Closure	PP (Polypropylene)	
Insert	PTFE	
O-ring	EPDM/NBR	
Nuts	PPS	
Ferrules	ETFE	
Sleeves	PP	

SPECIFICATIONS

VICI cap

INCLUDES

- 1 cap, GL38/430 thread
- 10-ring
- 1 set: 1/16" nut/ ferrule/ color-sleeve adapter
- 1, 2, or 3 sets: 1/8" nut/ferrule/ color-sleeve adapter
- 1 adapter ring

GL38 NOTES Ĭ

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

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

- Fits all bottles or canisters with GL38/430 thread (See NOTES, below right)
- 2, 3, or 4 ports with 1/4-28 threads for 1/8" or 1/16" tubing

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

	No. of ports	Product No.
VICI cap, GL38	2	JR-S-13001
	3	JR-S-13002
	4	JR-S-13003

Product No.

For improved chemical resistance, order:		
O-ring, FEP-coated, GL45	JR-S-40009	

GL38 THREADS		
ICATIONS		

CONNECTIONS		
1/4-28		
MATERIALS		
Closure	PP (Polypropylene)	
Insert	PTFE	
O-ring	EPDM (optional FEP-coated)	
Adapter ring	PA/PP	
Nuts	PPS	
Ferrules	ETFE	
Sleeves	PP	

SPECIF

S40 THREADS

ies	CIFC
es	PP

VICI caps



Spare parts FOF		R VICI CAP/BOTTLE KITS	
		Qty/pkg	Product No.
Safety-coated bottle	1 Liter	1	JR-9000-0005
with solid cap	2 Liters	1	JR-9000-0010
No-Met biocompatible mobile pha	se filter,	1	JR-32174
economy slip-on connection, 5 μm	pore		
PFA tubing, 1/8" x 1.59 mm x 3m		1	JR-T-4003-M3

Spare parts

FOR VICI CAPS

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



Color-Sleeve adapters . 23 No-Met mobile phase filters 59 PFA tubing 13 Safety-coated bottles (for additional sizes) . 84 Safety air inlet valves . . 67

Waste caps



WASTE CAPS

Waste caps seal the bottle/canister with an O-ring behind a PTFE lip; therefore the O-ring is not a wetted part. Unused ports should be closed with plugs, available in PEEK or polypropylene.

- Prevent evaporation of volatile compounds
- 3 or 4 ports with 1/4-28 threads for 1/8" or 1/16" tubing
- Additional port with 1/2-20 thread for 1/4" OD tubing or M10 x 1 thread for a barbed adapter
- Thread-sealing barbed adapters available in three sizes, to connect 4 mm, 6 mm, or 8 mm ID tubing (shown at right order separately from "Spare Parts" on page 79)





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

Waste cap

INCLUDES

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

Fits all bottles or canisters with GL45 thread

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

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

Product No.

Waste cap, GL45		
Fourth port:	1/2-20 thread for 1/4" OD tubing, with 1/4" plug	JR-S-11003W
	M10 x 1 thread for barbed adapter	JR-S-11023



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

SPECIFICATIONS

CONNECTIONS

GL45 THREADS

Waste cap

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

- Fits all bottles or canisters with GLS80 thread
- 4 ports with 1/4-28 thread for 1/8" or 1/16" tubing
- Fifth port with choice of threads

Product No.

Waste cap, GLS80			
Fifth port:	1/2-20 thread for 1/4" OD tubing,	JR-S-18004	
	with 1/4" plug		
	M10 x 1 thread for barbed adapter *	JR-S-18014	

* Order barbed adapter separately, bottom of page 79



GLS80 THREADS

SPECIFICATIONS			
CONNECT	CONNECTIONS		
	1/4-28, 1/2-20		
MATERIA	MATERIALS		
Closure	PP (Polypropylene)		
Insert	PTFE		
O-ring	NBR		
Nuts	PPS/POM		
Ferrules	ETFE/CTFE		
Plug	PTFE		
Barbed adapter	PA/PP		

Waste caps



Waste cap

SPECIFICATIONS

CONNECTIONS

1/4-28, 1/2-20

MATERIALS		
Closure	PE (Polyethylene)	
Insert	PTFE	
O-ring	NBR	
Nuts	PPS/POM	
Ferrules	ETFE/CTFE	
Plug	PTFE	
Barbed adapter	PA/PP	

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•	Fits all	bottles or	canisters wit	h DIN60 thread
	i i co ani	000000	carnsters with	Diritoo tincuu

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

		Product No
Waste cap, DIN	60	
Fourth port:	1/2-20 thread for 1/4" OD tubing, with 1/4" plug	JR-S-16003
	M10 x 1 thread for barbed adapter *	JR-S-16013

* Order barbed adapter separately, bottom of page 79

DIN60 THREADS

INCLUDES

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

Waste cap

Plug

Barbed

adapter

SPECIFICATIONS CONNECTIONS 1/4-28, 1/2-20		2	• 3 ports with	les or canisters with S51 thread n 1/4-28 thread for 1/8" or 1/16 t with choice of threads	-
MATERIALS					Product No.
Closure	PE (Polyethylene)	-	Waste cap, S51		
Insert	PTFE	13-1	Fourth port:	1/2-20 thread for 1/4" OD tubing,	JR-S-15103
O-ring	NBR			with 1/4" plug	
Nuts	PPS/POM			M10 x 1 thread for barbed adapter *	JR-S-15113
Ferrules	ETFE/CTFE		* Order barbed a	adapter separately, bottom of page 79	

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S51 THREADS

INCLUDES

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

Waste cap

SPECIFICATIONS

CONNECTIONS

1/4-28, 1/2-20

PTFE

PA/PP

MATERIALS

Closure	PE (Polyethylene)			
Insert	PTFE			
O-ring	NBR			
Nuts	PPS/POM			
Ferrules	ETFE/CTFE			
Plug	PTFE			
Barbed adapter	PA/PP			

SEE ALSO Color Cloove

Color-Sleeve	
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• Fits all bottles	or canisters	with S61	thread

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

Product No.	

Waste cap, S61				
Fourth port:	Fourth port: 1/2-20 thread for 1/4" OD tubing, with 1/4" plug			
	M10 x 1 thread for barbed adapter *	JR-S-16113		

* Order barbed adapter separately, bottom of page 79

S61 THREADS

INCLUDES

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



Waste caps



Waste cap

INCLUDES

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

• Fits all bottles or canisters with B53 thread

with 1/4" plug

Waste cap, B53

Fourth port:

• 3 ports with 1/4-28 thread for 1/8" or 1/16" tubing

1/2-20 thread for 1/4" OD tubing,

M10 x 1 thread for barbed adapter*

• Fourth port with choice of threads

* Order barbed adapter separately, on the page opposite

Due du et Ne

Product	INO.

JR-S-15303

JR-S-15313



B53 THREADS

SPECIFICATIONS					
CONNECT	CONNECTIONS				
	1/4-28, 1/2-20				
MATERIALS					
Closure PP (Polypropylene)					
Insert PTFE					
O-ring NBR					
Nuts PPS/POM					
Ferrules	ETFE/CTFE				
Plug PTFE					
Barbed PA/PP adapter					

Waste cap

INCLUDES

- 1 cap
- 10-ring
- 1 set: 1/16" nut/ ferrule/ color-sleeve adapter
- 1 set: 1/4" nut/ferrule

• 3 sets: 1/8" nut/ferrule/ color-sleeve adapter

• 1 plug, 1/4" (1/2-20), where noted in product number chart

- Fits all bottles or canisters with B83 thread
- 4 ports with 1/4-28 thread for 1/8" or 1/16" tubing
- Fifth port with choice of threads

		Product No.
Waste cap, B83		
Fifth port:	1/2-20 thread for 1/4" OD tubing, with 1/4" plug	JR-S-18304
	M10 x 1 thread for barbed adapter*	JR-S-18314

* Order barbed adapter separately, on the page opposite



B83 THREADS

	SPECIFICATIONS CONNECTIONS				
1/4-28, 1/2-20					
MATERIA	MATERIALS				
Closure PP (Polypropylene)					
Insert	Insert PTFE				
O-ring	NBR				
Nuts	PPS/POM				
Ferrules	ETFE/CTFE				
Plug	PTFE				
Barbed adapter					



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



Chemical resistance 96-98

SEE ALSO

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Air inlet valves67

Spare parts for Waste caps

SAFETY PRODUCTS



Spare parts

FOR WASTE CAPS

			Qty/pkg	Product No.
1/4-28 flangeless nuts	PPS	1/16" OD	10	JR-55070-10
		1/8" OD	10	JR-55071-10
Inverted ferrules	ETFE	1/16" OD	10	JR-041-10
		1/8" OD	10	JR-051-10
1/2-20 nut	POM	1/4" OD	1	JR-CFL-4D
Collapsible ferrule	CTFE	1/4" OD	1	JR-CFL-CB4KF-S
Plug, 1/4-28	PEEK		1	JR-409
	Polypropylene		1	JR-201999
Plug, 1/2-20	PTFE		1	JR-S-40007
Plug, M10 x 1	PA		1	JR-073001
Barbed hose adapter for 1/8" ID tubing			1	JR-075013
Color-Sleeve adapters, 12 colors (2 each)			24	JR-5508X-24

		Tubing size	Qty/pkg	Product No.
Adapters				
1/2-20 to 1/4-28	POM		10	JR-S-40200
Barbed hose adapter	PA/PP	1/8" ID	1	JR-075013

		Tubing size	Qty/pkg	Product No.
Barbed adapters, M10) x 1			
Angled	PA	4 mm ID	1	JR-S-40104
	PA	6 mm ID	1	JR-S-40106
	PA	8 mm ID	1	JR-S-40108
Straight	PA	4 mm ID	1	JR-S-40304
	PA	6 mm ID	1	JR-S-40306
	PA	8 mm ID	1	JR-S-40308
Т	PA	4 mm ID	1	JR-S-40404
	PA	6 mm ID	1	JR-S-40406

NEW Multi caps



MULTI CAPS

NEW VICI multi caps are available for bottles with GL38, GL45, DIN50, S51, B53, DIN60, S61, GLS80 and B83 threads. They can be used for mobile phase or waste bottles/canisters.

All multi caps come with three angled PA barbed adapters for connecting tubing with 4mm, 6mm and 8mm ID, a PA plug for the M10x1 bore, and PP plugs for the 1/4-28 bores.

Optionally, the caps can be equipped with PA straight and T-adapters for different ID tubing.

NEW Multi cap

INCLUDES

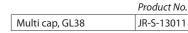
- 1 cap
- 1 O-ring
- 1 set: 1/8" nuts/ferrules/ colored sleeve adapters
- 1 set: angled barbed adapters for 4mm, 6mm and 8mm ID tubing
- 1 set: plugs (PA and PP)

NEW Multi cap

- INCLUDES
- 1 cap
- 1 O-ring
- 2 sets: 1/8" nuts/ ferrules/colored sleeve adapters
- 1 set: angled barbed adapters for 4mm, 6mm and 8mm ID tubing
- 1 set: plugs (PA and PP)

7		
	-	
6		

- Fits all bottles or canisters with GL38 thread
- 1 port with 1/4-28 thread for 1/8" OD tubing
- Second port with M10x1 threads for barbed adapters



GL38 THREADS

SPECIFICATIONS				
CONNECT	CONNECTIONS			
1/4-28, M10 x 1				
MATERIALS				
Closure PP/PE				
Insert	nsert PTFE			
O-ring NBR				
Nuts	PPS/POM			
Ferrules	s ETFE			
Sleeves	PP (1/4-28) PA (M10x 1)			

1

- Fits all bottles or canisters with GL45 thread
 - 2 ports with 1/4-28 thread for 1/8" OD tubing
- Third port with M10x1 threads for barbed adapters

	Product No.
Multi cap, GL45	JR-S-11052

GL45 THREADS

SPECIFICATIONS		
CONNECTIONS		
1/4-28, M10 x 1		
MATERIALS		
Closure	PP/PE	
Insert	PTFE	
O-ring	NBR	
Nuts	PPS/POM	
Ferrules	ETFE	
Sleeves	PP (1/4-28) PA (M10x 1)	

NEW Multi cap

INCLUDES

- 1 cap
- 1 O-ring
- 2 sets: 1/8" nuts/ ferrules/colored sleeve adapters
- 1 set: angled barbed adapters for 4mm, 6mm and 8mm ID tubing
- 1 set: plugs (PA and PP)

- Fits all bottles or canisters with DIN50 thread
- 2 ports with 1/4-28 thread for 1/8" OD tubing
- Third port with M10x1 threads for barbed adapters

	Product No.
Multi cap, DIN50	JR-S-15052

DIN50 TH	HREADS
----------	--------

SPECIFICATIONS				
CONNECT	CONNECTIONS			
	1/4-28, M10 x 1			
MATERIALS				
Closure	PP/PE			
Insert	PTFE			
O-ring	NBR			
Nuts	PPS/POM			
Ferrules	ETFE			
Barbed adapters	PA			
Plugs	PP (1/4"-28) PA (M10x1)			

NEW Multi caps



INCLUDES

• 1 cap

• 1 O-ring

NEW Multi cap

CONNECTIONS

MATERIALS

Closure

Insert

O-ring

Ferrules

Barbed

adapters Plugs

Nuts

S51 THREADS

PP/PE

PTFE

NBR

ETFE

PA

PPS/POM

PP (1/4"-28) PA (M10x1)

1/4-28, M10 x 1

• Fits all bottles or canisters with S51 thread

- 2 ports with 1/4-28 thread for 1/8" OD tubing
- Third port with M10x1 threads for barbed adapters

Product No.

JR-S-15152

.

Multi cap, S51

2 sets: 1/8" nuts/ ferrules/colored sleeve adapters 1 set: angled barbed adapters for 4mm,

- adapters for 4mm, 6mm and 8mm ID tubing
- 1 set: plugs (PA and PP)

B53 THREADS

NEW Multi cap

SPECIFI CONNECT	CATIONS TIONS 1/4-28, M10 x 1		• 2 ports with 1/4	r canisters with B53 thread -28 thread for 1/8" OD tubi M10x1 threads for barbed a	• 1 O-ring
MATERIA	LS	Statement of the		Product No.	• 2 sets: 1/8" nuts/ ferrules/colored sleeve
Closure	PP/PE	Contraction of the	Multi cap, B53	JR-S-15352	adapters
Insert	PTFE				• 1 set: angled barbed
O-ring	NBR				adapters for 4mm, 6mm and 8mm ID
Nuts	PPS/POM				tubing
Ferrules	ETFE				• 1 set: plugs (PA and PP)
Barbed adapters	PA				
Plugs	PP (1/4"-28) PA (M10x1)				

NEW Multi cap

SPECIFICATIONS

CONNECTIONS

1/4 20, WHO X 1		
MATERIALS		
Closure	PP/PE	
Insert	PTFE	
O-ring	NBR	
Nuts	PPS/POM	
Ferrules	ETFE	
Barbed adapters	PA	
Plugs	PP (1/4"-28) PA (M10x1)	

- Fits all bottles or canisters with DIN60 thread
- 2 ports with 1/4-28 thread for 1/8" OD tubing-
- Third port with M10x1 threads for barbed adapters

	Product No.
Multi cap, DIN60	JR-S-16052

DIN60 THREADS

INCLUDES

- 1 cap
- 1 O-ring
- 2 sets: 1/8" nuts/ ferrules/colored sleeve adapters
- 1 set: angled barbed adapters for 4mm, 6mm and 8mm ID tubing
- 1 set: plugs (PA and PP)

NEW Multi caps



NEW Multi cap

INCLUDES

- 1 cap
- 1 O-ring
- 2 sets: 1/8" nuts/ ferrules/colored sleeve adapters
- 1 set: angled barbed adapters for 4mm, 6mm and 8mm ID tubing
- 1 set: plugs (PA and PP)

2	•

12

- Fits all bottles or canisters with S61 thread
- 1 port with 1/4-28 thread for 1/8"
- Second port with M10x1 threads for barbed adapters

	Product No.
Multi cap, S61	JR-S-16152

SPECIFICATIONS		
CONNECTIONS		
1/4-28, M10 x 1		
MATERIALS		
Closure	PP/PE	
Insert	PTFE	
O-ring	NBR	
Nuts	PPS/POM	
Ferrules	ETFE	
Barbed adapters	PA	
Plugs	PP (1/4"-28) PA (M10x1)	

NEW Multi cap

INCLUDES

- 1 cap
- 1 O-ring
- 2 sets: 1/8" nuts/ ferrules/colored sleeve adapters
- 1 set: angled barbed adapters for 4mm, 6mm and 8mm ID tubing
- 1 set: plugs (PA and PP)



- Fits all bottles or canisters with GLS80 thread
 2 ports with 1/4-28 thread for 1/8"
- Third port with M10x1 threads for barbed adapters

	Product No.
Multi cap, GLS80	JR-S-18053

SPECIFICATIONS CONNECTIONS		
MATERIALS		
Closure	PP/PE	
Insert	PTFE	
O-ring	NBR	
Nuts	PPS/POM	
Ferrules	ETFE	
Barbed adapters	PA	
Plugs	PP (1/4"-28) PA (M10x1)	

NEW Multi cap

- INCLUDES
- 1 cap
- 1 O-ring
- 2 sets: 1/8" nuts/ ferrules/colored sleeve adapters
- 1 set: angled barbed adapters for 4mm, 6mm and 8mm ID tubing
- 1 set: plugs (PA and PP)

0	
Discourse	

- Fits all bottles or canisters with B83 thread
- 2 ports with 1/4-28 thread for 1/8"
- Third port with M10x1 threads for barbed adapters

	Product No.
Multi cap, B83	JR-S-18353

SPECIFICATIONS		
CONNECTIONS		
1/4-28, M10 x 1		
MATERIALS		
Closure	PP/PE	
Insert	PTFE	
O-ring	NBR	
Nuts	PPS/POM	
Ferrules	ETFE	
Barbed adapters	PA	
Plugs	PP (1/4"-28) PA (M10x1)	

B83 THREADS



Eco caps



ECO CAPS

The Eco cap consists of a three-hole ETFE insert (two bores for 1/8" and one for 4 mm OD tubing) with a polyethylene collar, compatible with all standard GL45 thread bottles. The Eco cap has no threading for fittings on the inside of the tubing ports – the tubing is simply inserted.

Eco cap/ safety bottle kit

GL45 THREADS



NOTE

plug

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.



Impermeable tubing ...17 Polymeric tubing ...13-17 Waste caps76-79

Spare parts

FOR ECO CAP

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

Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl SolviFlex • Safety-coated glass bottles



SAFETY PRODUCTS

SolviFlex

INCLUDES

- ~3m coiled 1/8" PFA tubing
- 2 sets: 1/4-28 nut/ ferrules for 1/8" OD tubing
- 1 No-Met mobile phase filter with economy slip-on connection (JR-32174)
- Be "mobile" with mobile phase bottles
- Ideal with VICI safety caps or VICI caps
- Customized version on request

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

	Product No.	
SolviFlex assembly	JR-6120-50030	
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SPECIFICATIONS						
TUBING SIZE						
	1/8 OD					
MATERIA	LS					
Tubing	PFA					
Nuts PPS						
Ferrules ETFE						
Filter	PE					



exhaust filter

Safety-coated glass bottles

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

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

These safety-coated glass bottles cannot be autoclaved.

Bottles include a solid cap.

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



0.8 bar (11.6 psi)

MATERIALS

Bottle	Borosilicate 3.3 glass
Cap	PP
Pouring ring	РР



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



No-Met biocompatible mobile phase filter...59 Safety caps 70-71 Safety cap kit 70 Safety exhaust filter 68-69 VICI caps72-73 VICI cap kit74



Special application filters

SAFETY PRODUCTS





Carbon dioxide filter

CO₂

In ion chromatography, a basic solution is often used as mobile phase. Because of their low buffer capacity, the pH of these eluents can easily be affected by the carbon dioxide in the air.

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

	Product No.
Carbon dioxide filter	JR-S-20100



Humidity filter

H₂**0**

In applications requiring a non-aquaeous organic solvent – chiral separations, for example – traces of moisture in the ambient air can influence the results.

The use of a humidity filter in combination with a VICI cap solves this problem.

	Product No.
Humidity filter	JR-S-20200



FRITS



REPRODUCIBILITY AND PRECISION

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

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

FRITS INDEX

UNIDENSE FRITS

Stainless	•	•••	•	•••	•	•••	•	•••	•	• •	•	pa	ağ	ge	87
Fitanium	•										•				87
Polyethylene	•														86

PEEK-ENCASED FRITS

Stainless	88
Titanium	89
Polyethylene	89

Polyethylene frits

- Biocompatible
- Metal free

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

For single use only. Sold in packages of 5.

OL	OD Thickness		Product No.			
		inches			μL	
.255	6.50	.079	2.00	10	26.5	JR-F-255-079-10PE-5

UNIDENSE TYPE

SPECIFICATIONS MATERIAL UHMWPE TOLERANCES ±0.08 mm (.003") PRESSURE RATING <210 bar (3000 psi)





86 | www.vici-jour-com | VICI AG International

Unidense frits

UNIDENSE TYPE



SPECIFICATIONS MATERIAL Stainless steel Type 316L sintered TOLERANCES See chart below



SPECIFICATIONS

Titanium, sintered

See chart at left

MATERIAL

TOLERANCES

OPTIONS

- Standard frits do not have chamfers. Chamfered frits are available on request.
- Other dimensions and porosities are available on request. Minimum order quantity: 100 pieces. Please contact your local distributor or VICI directly.

TOL	ERANCES
OD (mm)	Tolerance

<5 ±0.05 mm (.002") 5-12 ±0.08 mm

(.003″) 12.5-25.4 ±0.20 mm (.008″)

NOTES

- Stated porosities are only nominal and do not reflect the maximum pore size of a frit.
- See frit volume chart for help chosing the right frit and porosity for your application... page 109
- Frit volumes are theoretical and are calculated by multiplying overall frit volume times the porosity proportion.



Stainless steel frits

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

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

Sold in packages of 5.

Oi inches	D mm	Thick inches	Thickness inches mm		Frit volume μL	Product No.
1/16"	1.59	.030	0.76	μm 0.5	μL 0.39	JR5FR1-5
1/10	1.55	.050	0.70	1	0.45	JR-1FR1-5
				2	0.53	JR-2FR1-5
				10	0.60	JR-10FR1-5
1/8"	3.18	.040	1.02	0.5	2.10	JR5FR2-5
				1	2.43	JR-1FR2-5
				2	2.83	JR-2FR2-5
				10	3.24	JR-10FR2-5
1/4"	6.35	.040	1.02	0.5	8.39	JR5FR4-5
				2	11.30	JR-2FR4-5
				10	12.91	JR-10FR4-5
3/8"	9.53	.040	1.02	0.5	18.91	JR5FR6-5
				2	25.45	JR-2FR6-5
				10	29.09	JR-10FR6-5
1/2"	12.70	.040	1.02	0.5	33.58	JR5FR8-5
				2	45.2	JR-2FR8-5
				10	51.66	JR-10FR8-5
1"	25.40	.060	1.52	2	269.43	JR-2FR1K-5
				10	307.92	JR-10FR1K-5

Titanium frits

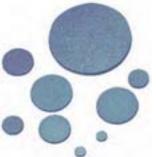
• Recommended for protein analysis

Biocompatible

- High corrosion resistance
- Various pore sizes and diameters

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

Sold in packages of 5.



O	OD		Thickness		Frit volume	Product No.
inches	mm	inches	mm	μm	μL	
1/16"	1.59	.062	1.57	0.5	0.82	JR5FR1TI-5
		.040	1.02	2	0.71	JR-2FR1TI-5
1/8"	3.18	.040	1.02	2	2.83	JR-2FR2TI-5
1/4"	6.35	.040	1.02	2	11.30	JR-2FR4TI-5
3/8"	9.53	.040	1.02	2	25.45	JR-2FR6TI-5
1/2"	12.70	.040	1.02	2	45.2	JR-2FR8TI-5
				10	51.66	JR-10FR8TI-5
1"	25.40	.040	1.02	2	180.80	JR-2FR1KTI-5

UNIDENSE TYPE



PEEK-ENCASED FRITS

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

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

Stainless steel	frits	
------------------------	-------	--

- For HPLC columns or in-line filters
- Eliminate poorly swept volume and improves peak symmetry
- Various porosity and dimension options

Our PEEK-encased frits with 0.115" or 1/4" OD ring are intended for HPLC columns with IDs of 3.2, 3.9, and 4.6 mm. With the frit surrounded by a PEEK ring, the actual porous surface is reduced to the column ID.

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

Sold in packages of 5.

Ring	OD	Frit (DD	Thick	ness	Porosity	Frit volume	Product No.
inches	mm	inches	mm	inches	mm	μm	μL	
.115"	2.92	.038	0.97	.028	0.70	0.5	0.13	JR-1110-05P-5
						2	0.18	JR-1110-2P-5
						5	0.20	JR-1110-5P-5
		.077	1.96	.028	0.70	0.5	.0.55	JR-1111-05P-5
						2	0.74	JR-1111-2P-5
						5	0.80	JR-1111-5P-5
						10	0.87	JR-1111-10P-5
.25"	6.35	.078	2.00	.062	1.59	0.5	1.30	JR-1104-05P-5
						2	1.74	JR-1104-2P-5
		.125	3.20	.062	1.59	0.5	3.32	JR-1102-05P-5
						2	4.47	JR-1102-2P-5
		.153	3.90	.062	1.59	0.5	4.94	JR-1101-05P-5
						2	4.47	JR-1101-2P-5
		.181	4.60	.062	1.59	0.5	6.87	JR-1100-05P-5
						2	9.24	JR-1100-2P-5
		.125	3.20	.032	0.80	0.5	1.75	JR-1103-05P-5
						2	2.25	JR-1103-2P-5



PEEK-ENCASED

SPECIFICATIONS MATERIAL Frit Stainless S316L Ring PEEK TOLERANCES ±0.05 mm (.002")



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



- Stated porosities are only nominal and do not reflect the maximum pore size of a frit.
- See frit volume chart for help chosing the right frit and porosity for your application...... 109
- Frit volumes are theoretical and are calculated by multiplying overall frit volume times the porosity proportion.

🔶 SEE ALSO

Unidense type frits						
Polyethylene	86					
Stainless	87					
Titanium	87					

PEEK-encased frits

FRITS



PEEK-ENCASED

SPECIFICATIONS MATERIAL Frit Titanium Ring PEEK TOLERANCES ±0.05 mm (.002")



Titanium frits

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

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

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

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

Sold in packages of 5.

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

SPECIFICATIONS

MATERIAL UHMWPE PEEK ±0.05 mm (.002")



PEEK-ENCASED



Frit Ring TOLERANCES

OPTIONS AND MORE **INFORMATION**

See facing page.



 PEEK-encased titanium frits can also be used as spare parts frits for the PEEK in-line filter kit . .62

 PEEK-encased polyethylene frits can be used as spare parts for: **PEEK** in-line filter kit62 PEEK columns 91

• Biocompatible

Metal free

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

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

Sold in packages of 5.

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

COLUMNS



PEEK COLUMNS • GUARD COLUMNS

COLUMNS INDEX

PEEK COLUMNS

2.1 mm ID	• • •	•••	••	•••	•••	•••	•	•••	• •	•	.p	a	ge	91	
4.0 mm ID														91	

In-line biocompatible

COLUMN COUPLERS AND PLUGS

PEEK columns

COLUMNS



2.1 mm ID

SPECIFICATIONS

MATERIAL PEEK, black and natural TOLERANCES ±0.05 mm (.002") PRESSURE RATING (MAXIMUM) 210 bar (3000 psi) During packing, using a VICI Jour packing kit: 350 bar (5000 psi) • Biocompatible

• High pressure applications

Packing devices available

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

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

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

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



4.0 mm ID

PEEK columns

SPECIFICATIONS

MATERIAL PEEK, black and natural TOLERANCES ±0.05 mm (.002")

PRESSURE RATING (MAXIMUM)

350 bar (5000 psi)
During packing, using a
VICI Jour packing kit:
350 bar (5000 psi)

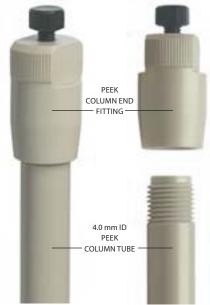


- High pressure applications
- Packing devices available

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

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

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



Column packing kit....92 PEEK-encased frits Titanium89 Polyethylene frits89

SEE ALSO

Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl Guard columns = Packing kits



COLUMNS

In-line biocompatible guard column

- Biocompatible
- Easy to fill
- Packing device for do-it-yourself packing available

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

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

3.0 mm

8.0

mm

Guard column system includes:

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

Guard column cartridge includes:

- Guard column cartridge
- + 2 Titanium frits (2 μm or 5 $\mu m)$

		Qty/pkg	Product No.			
Guard column system	2 µm	1	JR-68252TI2			
	5 µm	1	JR-68252TI			
Guard cartridge with	2 µm	1	JR-68242TI2			
2 frits	5 µm	1	JR-68242TI			
Spare parts						
Replacement CTFE pack	ing seal	1	JR-9			

SPECIFICATIONS

MATERIAL PEEK, titanium PRESSURE RATING < 350 bar (< 5000 psi)





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

	Product No.					
For 2.1 mm ID columns						
Packing kit	JR-67-250-2A					
Replacement PEEK packing adapter	JR-67140-1B					
Replacement PEEK packing seal	JR-65011					
For 4.0 mm ID columns						
Packing kit	JR-67-250-4					
Replacement PEEK packing adapter	JR-67140-2B					
Replacement PEEK packing seal	JR-66158					
For in-line biocompatible guard columns						
Packing kit	JR-27305					
Replacement CTFE packing seal	JR-9					

SPECIFICATIONS

MATERIAL PEEK PRESSURE RATINGS During packing, using a VICI Jour packing kit: Column Packing ID pressure 2.1 mm 350 bar (5000 psi) 4.0 mm 560 bar (8000 psi) See column pages for operating pressure ratings.



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



This item requires a mechanical press to force the frits into position.



PEEK columns 2.1 mm ID91 4.0 mm ID91

Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl Column couplers = Column end plugs

COLUMNS



SPECIFICATIONS

MATERIAL Tubing PEEK Fittings PEEK Sleeve PP (Polypropylene) THREADS 10-32 male to 10-32 male PRESSURE RATING

<350 bar (5000 psi)

One-piece fingertight column couplers

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

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



Sold individually.

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



Coupler shown installed between two columns (columns not included)

Column end plugs – logotype

Same features as column end plugs below

• Customizable with your logo and color (OEM version)

SPECIFICATIONS

MATERIAL Nylon THREADS 10-32 TOLERANCES ±0.05 mm (.002")

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

Sold in packages of 10.



Column end plugs

SPECIFICATIONS

 THREADS / MATERIAL

 10-32
 Nylon

 6-40
 POM

 TOLERANCES
 ±0.05 mm (.002")

SEE ALSO Color-coded

PEEK tubing 10-12

• Seal analytical columns

• Fingertight (with wrench flats on 10-32 versions)

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

For small columns with 6-40 threads, fingertight (no wrench flat) plugs are available. Sold individually.

Qty/pkg	Color	Product No.
10	White	JR-4071-10
	Black	JR-4072-10
	Red	JR-4073-10
	Green	JR-4074-10
	Blue	JR-4075-10
1	Natural POM	JR-4061
	,, 5	10 White Black Red Green Blue 1 Natural



SAMPLE LOOPS



VALCO • CHEMINERT[®] • RHEODYNE[™]

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

SAMPLE LOOPS INDEX

PEEK LOOPS

PEEK loops for:	
Cheminert page 95	,
Rheodyne 95	,
Valco 95	,

STAINLESS STEEL LOOPS

Stainless loops for:	
Cheminert	96
Rheodyne	97
Valco	96

PEEK LOOPS

- Wide range of volumes available
- Biocompatible

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

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

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

DISCLAIMER

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



The tighter ID tolerance of the tubing minimizes the tolerance of the loop volume.



PEEK loops

SAMPLE LOOPS

FOR CHEMINERT VALVES

FOR RHEODYNE VALVES

SPECIFICATIONS

MATERIAL Loops PEEK Nuts PEEK Ferrules PEEK Caps PE (Polyethylene) TOLERANCES ±0.025 mm (.001")

* Recommended maximum permanent working pressure

PEEK loops

Fit all Cheminert injection valves for 1/16" OD tubing (for example, C2).

Sample size	Pressure *		Product No.
	bar	psi	
ΝΕW 1 μΙ	400	5800	JR-SLC-85-1
ΝΕW 2 μΙ	400	5800	JR-SLC-85-2
ΝΕW 3 μΙ	400	5800	JR-SLC-85-3
ΝΕW 4 μΙ	400	5800	JR-SLC-85-4
5 µl	400	5800	JR-SLC-85-5
10 µl	400	5800	JR-SLC-85-10
20 µl	400	5800	JR-SLC-85-20
50 µl	400	5800	JR-SLC-85-50
100 µl	400	5800	JR-SLC-85-100
200 µl	240	3500	JR-SLC-85-200
250 µl	240	3500	JR-SLC-85-250

Pressure * Sample size Product No. bar psi 300 µl 240 JR-SLC-85-300 3500 500 µl 240 3500 JR-SLC-85-500 JR-SLC-85-1000 240 3500 1 ml



PEEK loops

Fit all Rheodyne metal and metal-free valves.

Sample size	Pressure *		Product No.
	bar	psi	
ΝΕW 1 μΙ	435	6300	JR-SLR-2190
ΝΕW 2 μΙ	420	6100	JR-SLR-2191
ΝΕΨ 3 μΙ	420	6100	JR-SLR-2192
ΝΕW 4 μΙ	420	6100	JR-SLR-2193
5 µl	400	5800	JR-SLR-2194
10 µl	400	5800	JR-SLR-2196
20 µl	386	5600	JR-SLR-2195
30 µl	386	5600	JR-SLR-2200

Pressure *		Product No.
bar	psi	
386	5600	JR-SLR-2201
350	4500	JR-SLR-2202
350	4500	JR-SLR-2204
240	3500	JR-SLR-2206
240	3500	JR-SLR-2207
240	3500	JR-SLR-2210
240	3500	JR-SLR-2222
	bar 386 350 350 240 240 240	bar psi 386 5600 350 4500 350 4500 240 3500 240 3500 240 3500

PEEK loops

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

Sample size	Pressure *		Product No.
	bar	psi	
ΝΕΨ 1 μΙ	400	5800	JR-SLV-75-1
ΝΕΨ 2 μΙ	400	5800	JR-SLV-75-2
ΝΕΨ 3 μΙ	400	5800	JR-SLV-75-3
ΝΕW 4 μΙ	400	5800	JR-SLV-75-4
5 µl	400	5800	JR-SLV-75-5
10 µl	400	5800	JR-SLV-75-10
20 µl	400	5800	JR-SLV-75-20
50 µl	400	5800	JR-SLV-75-50
100 µl	400	5800	JR-SLV-75-100

FOR VALCO VALVES

Sample size	Pressure *		Product No.
	bar	psi	
250 µl	240	3500	JR-SLV-75-250
500 µl	240	3500	JR-SLV-75-500
1 ml	240	3500	JR-SLV-75-1000



Spare parts

FOR PEEK CHEMINERT, RHEODYNE, AND VALCO LOOPS

Sold in packages of 5.

зою іп раска	ges of 5.	Product No.
PEEK nuts	for use with double ferrules, 1/16" hex head long, 10-32	JR-5510-5
PEEK ferrules	single ferrules, 1/16" (Use 2 per nut, as shown)	JR-5005-5



TECH TIPS

- See general information about PEEK loops on facing page.
- The ValvTool tightens nuts with tube or loop installed, providing easy access to many hard-toreach areas. 102



OPTIONS

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



About PEEK113



STAINLESS STEEL LOOPS

- Wide range of volumes available
- Ultra high pressure resistance

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

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

SPECIFICATIONS

MATERIAL Loops SS316 Nuts SS303 Ferrules SS316 Caps PE (Polyethylene) TOLERANCES ±0.05 mm (.002") PRESSURE RATING \leq 1375 bar (\leq 20,000 psi)

Stainless steel loops

FOR CHEMINERT VALVES Fit all Cheminert C1, C1CF, C2, C2V, C3, C52, C72H, and C72X type valves.

FOR VALCO VALVES

Sample size Product No. **NEW** 1 μl JR-SLC-86-1 **NEW** 2 μl JR-SLC-86-2 **NEW** 3 μl JR-SLC-86-3 **NEW** 4 μl JR-SLC-86-4 5 μl JR-SLC-86-5 10 µl JR-SLC-86-10 20 µl JR-SLC-86-20 50 µl JR-SLC-86-50 100 μl JR-SLC-86-100 250 µl JR-SLC-86-250 500 µl JR-SLC-86-500 1 ml JR-SLC-86-1000



Stainless steel loops

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

Sample size	Product No.
5 µl	JR-SLV-76-5
10 µl	JR-SLV-76-10
20 µl	JR-SLV-76-20
50 µl	JR-SLV-76-50
100 µl	JR-SLV-76-100
250 µl	JR-SLV-76-250
500 µl	JR-SLV-76-500
1 ml	JR-SLV-76-1000



Spare parts FOR STAINLESS CHEMINERT AND VALCO LOOPS

Sold in packages of 5.

	Product No.
1/16" stainless nuts, 10-32	JR-ZN1-5
1/16" stainless ferrules	JR-ZR1S6-5



Stainless steel loops

SAMPLE LOOPS

Stainless steel loops

FOR RHEODYNE VALVES

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

Product No.
JR-SLR-111
JR-SLR-112
JR-SLR-113
JR-SLR-114
JR-SLR-115
JR-SLR-116
JR-SLR-117
JR-SLR-118
Rheodyne 5, 1/16"
JR-SLR-110-77
JR-SLR-111-77
JR-SLR-112-77
JR-SLR-113-77
JR-SLR-114-77
JR-SLR-115-77
JR-SLR-116-77
JR-SLR-117-77
JR-SLR-118-77



TECH TIPS

- Not recommended for use with halides.
- We offer nuts in three lengths to facilitate wrench access on valves. For loops that will be replaced frequently, we recommend our longest nut – particularly when space is restricted. See long nuts.......37
- The ValvTool tightens nuts with tube or loop installed, providing easy access to many hard-toreach areas. 102



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



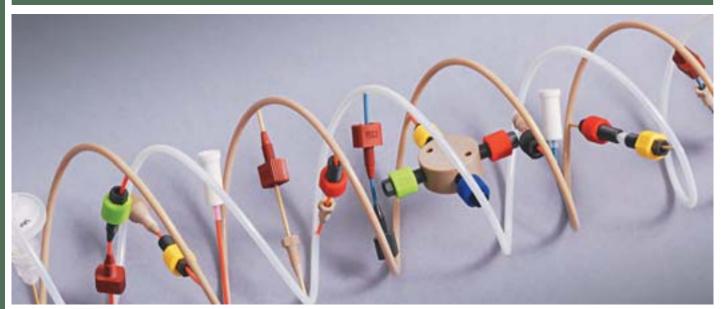
Spare parts

FOR STAINLESS RHEODYNE LOOPS

Sold in packages of 5.

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

ACCESSORIES



TOOLS • STARTER KITS • BACK-PRESSURE REGULATOR

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

ACCESSORIES INDEX

ACCESSORIES FOR TUBING

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ACCESSORIES FOR FITTINGS

- Color-It fingertight adapters...... 23 Work great with all our PEEK and stainless hex head nuts for 1/16" tubing.
- BACK-PRESSURE REGULATORS 102 Our back-pressure regulators improve baseline stability by preventing bubble formation in the flow cell.

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STARTER KITS

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Color-It fingertight adapters work great with all our PEEK and stainless hex head nuts for 1/16" tubing......23



Easy-Flange kits





Easy-Flange kit

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

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

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

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

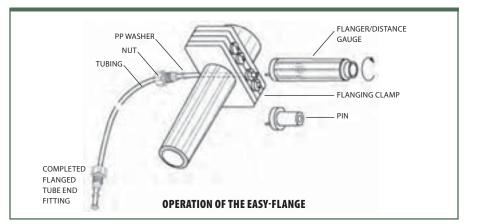
Product No.

Easy-Flange combi kit

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

	Product No.
Easy-Flange combi Kit	JR-201539
Kit includes:	

Kit includes:		Qty	Product No.
Easy-Flange kit above		1	JR-201540
PP nuts,1/4-28,	White, for 1/16" tubing	1 pkg	JR-201094WH-10
flanged	Black, for 1/8" tubing	1 pkg	JR-201580BK-10
PP washers	For 1/16" tubing	10	JR-201926-10
	For 1/8" tubing	10	JR-201928-10
PTFE tubing	1/16" x 0.75 mm ID	3m	JR-T-4036-M3
	1/8" x 1/16" ID	3m	JR-T-6800-M3





OPTIONS

Additional sizes of flanging discs are available.

Flanging disc with: Polymer pin Product No. 1.0 mm JR-201662 1.5 mm JR-201663



Flanged fittings.... 44, 49 Polymeric tubing 9-17

Tubing accessories and tools



ACCESSORIES

PEEK tubing elbows

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

Sold individually.

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



THE LC TUBING ORGANIZER

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

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



Clean-Cut tubing cutter

FOR POLYMERIC TUBING

- Cuts PEEK, PTFE, ETFE, and other polymeric tubing
- No distortion to OD or ID
- Ideal for the most demanding LC applications
- For 1/16", 2mm, 3mm, 1/8" and 4mm tubing OD
- Safety lock secures the blade

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

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

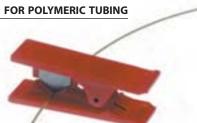
	Product No.
Clean-Cut tubing cutter	JR-797
Replacement blade	JR-798

Guillotine tubing cutter

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

• Ideal for less demanding LC applications

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





Tubing accessories and tools

ACCESSORIES



Stainless steel tubing cutter

CUTTING WHEEL TYPE

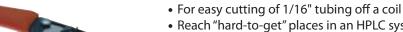
- For 1/16" and 1/8" SS tubing
- Leaves smooth, uniform cuts
- Minimal deburring and/or reaming required
- Easy replacement of the cutting wheel

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

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

Stainless steel tubing cutter

PLIER TYPE



- Reach "hard-to-get" places in an HPLC system
- Delivered in a plastic sheath

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

	Product No.
Tubing pliers for metal tubing	JR-796



File

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

	Product No.
Deburring file	JR-802

TECH TIP

Between the sample injector, column, and detector, use our pre-cut stainless steel tubing, which has been electrolytically cut and steam cleaned. 20

SEE ALSO Pre-cut stainless steel tubing.....20



ACCESSORIES

HPLC Backpressure regulators

- Improve baseline stability by preventing bubble formation in the flow cell
- Adjust backpressure without disconnecting anything
- Easy mount with 17 mm panel hole
- Three models, all with low dead volume
- Two models with completely biocompatible fluid path
- One model in stainless steel for preparative chromatography and SFC

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. VICI Jour backpressure regulators provide 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.

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

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

Backpressure regulators are available in three ranges as noted below.

	Range		Housing	Product No.
Biocompatible	1-20 bar 15-300 psi		PEEK	JR-BPR1
			PCTFE	JR-BPR-1KF
	20-103 bar 300-1500 psi		PEEK	JR-BPR2
			PCTFE	JR-BPR-2KF
Stainless steel	90-300 bar	1300-4200 psi	SS	JR-BPR3

SPECIFICATIONS

TUBING OD / THREADS 1/16" 10-32 MATERIAL Wetted parts: JR-BPR-1 and JR-BPR-2 Housing PEEK/PCTFE Membrane Polyimide JR-BPR-3 Housing SS Membrane Polyimide DEAD VOLUME 0.25 µl (theoretical)



ValvTool

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

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





ACCESSORIES



Tools





Ferrule removal kits

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

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

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

Hex key set

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

Product No.Hex ket setJR-HKS3



Tightening tools for PEEK fittings

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

Color	For use with	Product No.	
Green	1/32" fittings	JR-CNFT	
Blue	1/16" fittings	JR-ZNFT	

Tweezer

Ideal for picking up small fittings, etc.

Product No. Tweezer JR-806

Wrenches

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

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

Socket wrenches

Hex-head socket wrench for nuts with 1/4" head.

Product No. Hex-head socket wrench JR-SWH4



SEE ALSO Deburring file101 Tools for tubing . 100-101 and the second se

Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl Starter kits • PEEK and stainless steel



ACCESSORIES

PEEK starter kit

- All parts biocompatible
- Ideal kit for all HPLC users

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

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

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



Stainless steel starter kit

UHPLC

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

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



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ChromBox kit

ACCESSORIES



Includes

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

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



Description				Product No.
ChromBox kit	ChromBox kit			JR-34N
ChromBox kit ir	ncludes:		Qty	Product No.
PEEK fittings	One-piece 10-32 fittings		5	JR-55020-1
	Fingertight	: 10-32 nuts	5	JR-5580
	Long hex-h	lead 10-32 nuts	5	JR-5510
	1/16" doub	le ferrules	10	JR-5004
	Union, 0.25	mm bore, body only	1	JR-061
SS fittings	1/16" nuts,	10-32, 13 mm long	5	JR-MZN1
	1/16" nuts,	10-32, 19 mm long	5	JR-LZN1
	1/16" ferru	es	10	JR-ZF1S6
	1/16" unioi	n w/ nuts and ferrules, 0.50 mm bore	1	JR-ZU1MS6
Tubing	PEEK	1/16" x 0.25 mm ID x 3 m, blue stripe	1	JR-T-6001-M3
		1/16" x 0.50 mm ID x 3 m, orange stripe	1	JR-T-6002-M3
	PTFE	1/8" x 1/16" ID x 3 m	1	JR-T-6800-M3
	Stainless	1/16" x 0.25 mm x 3 m	1	JR-T-625-10-M3
		1/16" x 0.50 mm ID x 3 m	1	JR-T-625-20-M3
Filters	PEEK in-line	e filter kit	1	JR-68256
	Stainless La	ast Drop, 2 µm	1	JR-9000-0530
Accessories	Tubing elb	ow, 90°	1	JR-357090
	Tubing elb	Tubing elbow, 180°		JR-357180
	Tubing clip		2	JR-9001
Tools	Clean-Cut	polymeric tubing cutter	1	JR-797
	Plier style S	S tubing cutter	1	JR-796
	ValvTool 1/	4" x 5/16" wrench	1	JR-800
	Open end	wrench, 1/4" x 5/16"	1	JR-804
	Deburring	Deburring file		JR-802
	Tweezer		1	JR-806



Additional empty utility boxes are available to store all the chromatographic accessories in your lab, providing convenient storage near the chromatographic system. *Prod No.*





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GENERAL REFERENCE



CHEMICAL RESISTANCE • MATERIALS • GLOSSARY

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GENERAL CONVERSION FACTORS

inches x 25.4 = mm feet x 0.3048 = meters

meter x 3.28 = feet

bar x 14.5 = psi psi x 0.069 = bar

psi x 6.9 = kPa

inches to mm

feet to meters meters to feet

bar to psi

psi to bar psi to kPa

SEE ALSO

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TUBING VOLUME/LENGTH CONVERSION CHART

1/16" OD tubing sold by VICI typically has an ID tolerance of ± 0.025 mm. This is much tighter than normal commercial grades of tubing; however, it is enough to result in noticeable error if exact volumes are not measured, according to the equation

 $V = \Pi (\frac{1}{2} D)^2 L.$

ng ID	Volume/ length		
inches	µl/cm	μl/in	
.002"	0.02	0.05	
.0025"	0.03	0.08	
.003"	0.04	0.12	
.004"	0.08	0.21	
.005"	0.13	0.32	
.0067"	0.23	0.58	
.007"	0.25	0.63	
.010"	0.51	1.29	
.015"	1.14	2.90	
.020"	2.03	5.15	
.025"	3.17	8.04	
.030"	4.56	11.58	
	inches .002" .0025" .003" .004" .005" .0067" .007" .007" .010" .010" .015" .020"	Ien inches μl/cm .002" 0.02 .0025" 0.03 .003" 0.04 .004" 0.08 .005" 0.13 .0067" 0.23 .0067" 0.23 .0067" 0.25 .010" 0.51 .015" 1.14 .020" 2.03 .020" 2.03	

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

MAXIMUM RECOMMENDED WORKING PRESSURES FOR STAINLESS STEEL TUBING

psi

23,520

22,800

20,400

15,600

13,920

9,600

8,040

bar

1622

1572

1406

1075

960

662

554

		PREMIL	JM GRAD	E ST/	INLESS	TUBING	
OD	ID (mm)	bar	psi		OD	ID (mm)	
1/32"	0.13	1735	25,160		1/8"	0.68	
	0.18	1601	23,225			0.75	
	0.25	1395	20,230			1.00	
	0.50	734	10,645			1.50	
1/16"	0.13	1902	27,580			1.70	
	0.18	1835	26,610			2.16	
	0.25	1735	25,160		1/4"	4.65	
	0.50	1395	20,230				
	0.75	1067	15,480				
	1.00	734	10,645	1			

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

WORKING PRESSURE FOR STAINLESS STEEL TUBING

The working pressure for stainless tubing is calculated from the burst pressure by dividing by 2.5.

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

Note: All pressure ratings are calculated for room temperature.



MAXIMUM RECOMMENDED WORKING PRESSURES – PEEK TUBING

	PEEKTUBING															
OD	ID (μm)	bar	psi		OD	ID (mm)	bar	psi	OD	ID (mm)	bar	psi	OD	ID (mm)	bar	psi
360 µm	50	358	5200		1/32"	0.050	455	6600	1/16"	0.050	480	7000	1/8"	0.75	379	5500
	75	345	5000			0.064	455	6600		0.064	480	7000		1.59	248	3600
	100	300	4400			0.075	455	6600		0.075	470	6800		2.00	179	2600
	125	275	4000			0.100	455	6600		0.100	460	6700	1/4"	3.17	227	3300
	150	240	3500			0.13	414	6000		0.13	460	6700				
						0.15	400	5800		0.18	440	6400				
						0.18	386	5600		0.25	420	6100				
						0.20	369	5350		0.50	345	5000				
						0.25	338	4900		0.75	262	3800				
						0.38	269	3900		1.00	179	2600				

MAXIMUM RECOMMENDED WORKING PRESSURES – POLYMERIC TUBING

0.50

207

3000

OD	ID (mm)	bar	psi
1/32"	0.13	78	1100
	0.15	78	1100
	0.18	72	1050
	0.25	68	980
	0.38	51	750
	0.50	35	500
1/16"	0.25	117	1700
	0.50	96	1400
	0.75	76	1100
	1.00	52	750

	FEP TUBING						
OD	ID (mm)	bar	psi	Γ			
1/8"	1.59	69	1000				
	2.10	41	600				
	2.40	30	345				
3/16"	3.18	41	600				
1/4"	3.96	45	660				
	4.35	45	650				
	3/16"	29	420				
5/16"	1/4"	22	330				

OD	ID (mm)	bar	psi
1.0 mm	0.50	62	900
2.0 mm	1.00	62	900
3.0 mm	1.00	82	1200
	2.00	41	600
4.0 mm	3.00	28	420

1.40

55

800

	ETFE TUBING				
OD	ID (mm)	bar	psi		
1/32"	0.25	152	2200		
1/16"	0.25	186	2700		
	0.50	152	2200		
	0.75	117	1700		
	1.00	83	1200		
1/8"	1.59	110	1600		
	2.40	49	710		
1/4"	4.80	48	710		
3.0 mm	1.00	138	2000		
6.0 mm	4.00	69	1000		

	PFA TUBING					
OD	ID (μm)	bar	psi			
1/16"	0.50	100	1450			
	0.75	76	1100			
	1.00	55	800			
1/8"	1.59	72	1050			
	1.70	65	940			
3/16"	3.20	41	600			
1/4"	4.00	49	720			
	4.35	45	650			
	4.80	31	450			

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



The quoted maximum working pressure(s) were calculated from the burst pressure and the factor 2.5. These results assume the tubing is at room temperature. Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl Tubing tolerances • Frit volume • Threads



TOLERANCES – PEEK TUBING

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

PEEK TUBING						
Tubing OD	OD (±)	ID (±)				
1/32"	0.025 mm	0.025 mm				
1/16"	0.050 mm	0.025 mm				
1/8"	0.075 mm	0.075 mm				
1/4"	0.100 mm	0.100 mm				

TOLERANCES – POLYMERIC TUBING

GENERAL REFERENCE

ETFE	and PFA
Tubing OD	OD and ID (±)
1/16" *	0.05 mm
1/8"	0.10 mm
1/4"	0.10 mm OD
	0.20 mm ID
OD ±	n 0.20 mm ID: : 0.07 ± 0.08

	FEP
Tubing OD	OD and ID (±)
1/16"	0.05 mm
1/8"	0.10 mm
1/4"	0.10 mm OD
	0.20 mm ID

P	TFE
Tubing OD	OD and ID (±)
1/16"	0.05 mm
1/8"	0.10 mm
1/4"	0.10 mm
1/2"	0.20 mm

FRIT VOLUME STAINLESS, TITANIUM, AND POLYMER FRITS

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

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

STANDARD THREADS

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

2-56	6-40	10-32	5/16-24	1/4-28	1/2-20
for 360 μm OD tubing	for 1/32" OD tubing	for 1/16" OD tubing	for 1/8" OD tubing	for 1/16" and 1/8" OD tubing	for 1/4" OD tubing
Į.			-		



CHEMICAL RESISTANCE OF PEEK AT HIGH TEMPERATURE

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

CHEMICAL CHARACTERISTICS OF PEEK°

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

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

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

CHEMICAL RESISTANCE OF PEEK AND OTHER POLYMERS

A Resistance at 20°C PEEK PA PE PP PPS FEP ETFE PFA PTFE NBR EPDM PCTFE Acetaldehyde _ _ _ _ _ _ Acetic acid (20 %) _ Acetic acid (80 %) _ _ _ Acetic acid (glacial) _ Acetone Acetonitrile _ Acrylic acid _ _ _ _ _ _ _ _ Ammonia, anhydrous _ _ _ _ _ _ Ammonia (10 %) _ _ Ammonia (Liquid) Ammonium hydroxide _ _ _ Aqua regia _ _ _ _ Aromatic hydrocarbons _ _

B

Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM	PCTFE
Benzene										-	-	•
Benzoic acid		-	-	-			-		-	-	-	-
Benzaldehyde		-	-	-			-		-	-	-	
Bromine/dibromoethane		-	-	-			-		-	-	-	-
Bromine (dry)		-	-	-			-		-	-	-	-
Bromine (wet)			-	-			-		-			
Boric acid		-	-	-			-		-	-	-	
Butanol		_								_	-	

LEGEND

- Suitable
- Marginal; dependent on application
- Not
- recommended - No data
- available

Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM	PCTFE
Calcium hydroxide		_	-	-			-		-	_	-	-
Carbon tetrachloride		-	-	-			-		-	-	-	-
Chlorine (gas)			-	-			-		-			
Chlorine (liquid)			-	-			-		-	-	-	-
Chloroacetic acid		-								-	-	-
Chlorobenzene			-	-			-		-	-	-	-
Chloroform			•							-	-	
Cyclohexane					-					-	-	-
Cyclohexanone												-

D

Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM	PCTFE
Diethylamine		-			-					-	-	-
Diethylether			_	_			-		-	_	-	-
Diethylformamide												-
Dioxane			-	-					-	-	-	-

E

Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM	PCTFE
Ethanol												
Ether										-	-	•
Ethyl acetate												
Ethylene chloride	-		•							-	-	
Ethlene glycol												

H

Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM	PCTFE
Heptane												_
Hexane			•	•						-	-	
Hydrobromic acid (100%)		-					-			-	-	_
Hydrobromic acid (20%)		-			-					-	-	
Hydrochloric acid (100%)		-	-	•						-	-	
Hydrochloric acid (20%)		-		•						-	-	
Hydrofluoric acid (100%)		-	-	•						-	-	_
Hydrofluoric acid (20%)	-	-								-	-	
Hydrogen peroxide (100%)		_		•			-			-	-	_
Hydrogen peroxide (50%)		_			-					-	-	-
Hydrogen peroxide (10%)		_								-	-	_

I

Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM	PCTFE
lso-octane		-	-				-			-	_	-
Isopropanol							-					
Isopropyl ether	-				-		-			-	_	-

K

N												
Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM	PCTFE
Ketones		-					-			-	-	

Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl Chemical resistance • PEEK and other polymers



GENERAL REFERENCE

М

N												
Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM	PCTFE
Methanol												
Methyl dichloride	-		-		-		-		-	-	-	-
Methyl ethylketone										-	-	
Methlyene chloride												
N			-			-			~			-
Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM	PCTFE
Nitric acid (100%)		-								-	-	
Nitric acid (20%)		-								-	-	
0												
Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM	PCTFE
Pentane		-			-		-			-	-	-
Perchloric acid		_			-	•	•			-	_	_
Phenol (dilute)		_	_	-			_		_	-	-	_
Phenol (concentrated)		-	-	-			-		-	-	-	-
Phosphoric acid (100%)		-	•							-	-	-
Phosphoric acid (40%)		-								-	-	-
Potassium hydroxide (dilute)		-	-	-			-		-	-	-	
Potassium hydroxide (70%)		-	-	-			_		-	-	-	-
Propanol			-	-	-		-		-		•	-
Pyridine		-								-	-	-
5												
Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM	PCTFE
Sodium hydroxide (80%)							-			-	-	
Sodium hydroxide (20%)										-	-	
Sulfuric acid (100%)										-	-	-
Sulfuric acid (75%)										-	_	-
Sulfuric acid (40%)										-	-	_
ſ			1		1		1		1		1	1
Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM	PCTFE
Tetrahydrofuran										-	-	
Toluene			•							-	-	-
									•	-	-	-
Toluene												
Toluene Trichloroacetic acid	•										-	-
Toluene Trichloroacetic acid Trichloroethane			-		-		-		•	-	-	-
Toluene Trichloroacetic acid Trichloroethane Trichloroethylene	•		-	-	-		-		-	-		-
Toluene Trichloroacetic acid Trichloroethane Trichloroethylene Triethylamine	•	PA	-	-	-		-		-	-		
Toluene Trichloroacetic acid Trichloroethane Trichloroethylene Triethylamine	-	PA	-	-	-	•	-	•	-			-

Resistance at 20°C	PEEK	PA	PE	PP	PPS	FEP	ETFE	PFA	PTFE	NBR	EPDM	PCTFE
Xylene		-	-	-			-		-	-	-	

LEGEND

- Suitable
 Marginal; dependent
- dependent on application
- recommended
- No data available

Properties of polymers

GENERAL REFERENCE



PROPERTIES OF POLYMERS

CTFE / PCTFE

Polychlorotrifluoroethylene, abbreviated as CTFE or PCTFE, is the generic name for the material produced as Kel-F[®]. CTFE/PCTFE features high tensile strength and good chemical resistance. It is nonflammable, with heat resistance up to 175°C. The presence of a chlorine atom, which has a greater atomic radius than fluorine, results in a melting point of ~210 - 215°C – relatively low for a fluoropolymer. CTFE/PCTFE is resistant to attack by most chemicals and oxidizing agents; however, it swells slightly in halocarbon compounds, ethers, esters, and aromatic solvents.

EPDM

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

ETFE

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

FEP

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

FFKM

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

PEEK™

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

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

PEEK-HT / PEK

PEEK-HT or PEK, like PEEK[™], belongs to the class of PolyArylEtherKetones (PAEK). This class of semi-crystalline high performance engineering thermoplastics exhibits a unique combination of thermal stability, chemical resistance, and excellent mechanical properties over a wide temperature range. In comparison to PEEK, PEEK-HT provides better thermal stability and higher rigidity, which establishes more extensive processing and better durability under compression load.

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.

Continued, next page.

Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl Properties of materials • Polymers and metals



GENERAL REFERENCE

PPS

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

PTFE

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

POLYACETAL

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

POLYAMIDE

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

POLYETHYLENE

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

POLYPROPYLENE

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

PVDF

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

PROPERTIES OF METALS

STAINLESS STEEL, TYPE 316

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

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

STAINLESS STEEL, TYPE 303

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

TITANIUM

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

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

Safety • Trademarks

GENERAL REFERENCE



SAFETY

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

TRADEMARKS

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

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

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

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

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

A

ADAPTER

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

ANALYTICAL COLUMN

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

B

BIOCOMPATIBILITY

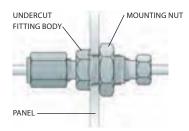
Defines the materials used in a system (i.e. fittings, tubing, and valves) that do not change the bioactivity of the biological substances that come into contact with the surface of these materials. Note that in chromatographic systems, the tubing and column contribute over 99% of the surface area and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

C

CAP A cap is used to dead-end a piece of tubing

with a nut and ferrule attached.

CAPILLARY BORE

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

COLLAPSIBLE FERRULE

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

COMPRESSION FITTING

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

CONNECTING VOLUME

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

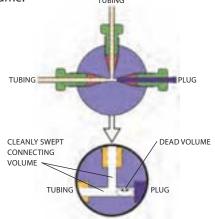
CROSS

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

D

DEAD VOLUME

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



Glossary

GENERAL REFERENCE



DETAIL

See fitting detail.

DISTRIBUTION FITTING

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

F

FIA

Flow Injection Analysis.

A simple and versatile analytical technique for automating wet chemical analyses based on the manipulation of a sample zone formed from the injection of the sample into a continuous stream of fluid used as a carrier.

FEMALE NUT

A nut with female threads; also called external nut.

FERRULE

One of the components of a compression fitting; the conical piece of metal or plastic that compresses onto the tube as it is forced into a tapered seat. Valco metal ferrules are unique in that they attach to and seal at the tube by cutting a shallow ring into it, instead of by actually swaging it. This is preferable since it introduces no flow restriction.

FILTER

A type of union or reducing union which traps the particulates in a stream. The filtering element is typically a mesh screen or sintered frit.

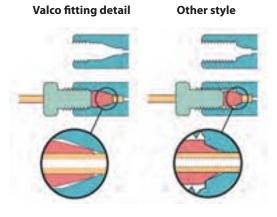
FINGERTIGHT FITTING

A fingertight fitting is a knurled or winged nut which is hand tightened to compress the ferrule. Note: Polymeric ferrules rely on surface compression to form a seal and hold the tube by friction.

FITTING DETAIL

A fitting detail includes the thread to accept the nut, a tapered ferrule seat, and the pilot for the tube. The nut, ferrule, and tube go into the fitting detail to make the seal.

Valco fitting details have the perfect shape, with a smooth transition from the ferrule seat into the cylindrical and threaded part. Many other fitting details are poor in design where the ferrule is forced in a too shallow ferrule seat. The result is a "nicked" ferrule which can no longer apply its sealing force to the front of the ferrule.



FLANGED FITTING

A type of fitting used with fluoropolymer tubing (PTFE, FEP) in which a flange is made at the tube end. Connections are made at the flange either by compressing the flange into a flat detail (typically 1/4-28 threaded) or by butting two flanges together. A special flanging tool forms the flanges.

FLANGELESS FITTING

Similar in application to the flanged fitting, but the flange is not required. A ferrule system is used which grips/compresses the tube. This fitting type can be used with virtually any polymeric tubing since the tube end does not have to be formed, but simply square cut. Typically used in 1/4-28 threaded fittings, it is usually interchangeable with flanged fittings.

FRIT

A filter element typically made of stainless, Hastelloy, Titanium, or polymers, usually 0.75 mm or 1 mm thick. Frits may provide better filtration than screens, but because they are thicker there is greater mixing potential, and they typically result in increased pressure drop.

Glossary

Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl

GENERAL REFERENCE

G GC

Gas Chromatography.

An analytical method incorporating an injection system, analytical column, controlled temperature zone, and detector. An inert carrier gas moves the sample through the column, which separates the sample components into discrete bands which are measured as they pass through the detector.

GUARD COLUMN

A column used in series between the injector and analytical column to prevent certain types of components from entering the analytical column.

н

HPLC

High Performance Liquid Chromatography. An analytical system consisting of an injector, pump, analytical column, and detector. Using a liquid mobile phase, the sample is pumped through the column, where it is separated into discrete sample component bands which are detected and measured as the bands elute from the column.

ID

Internal diameter.

INERT

Technically, unreactive with other substances; however, in the instrumentation field, "inert" is a relative term. Often polymers are termed inert but are soluble in some fluids and can react with some compounds.

INTERNAL FITTING

A type of compression fitting in which the fitting body has female threads; an internal nut has male threads.

L

LC

Liquid Chromatography.

Any of a variety of low to medium pressure techniques which use a liquid mobile phase as the carrier to move sample. Similar to HPLC.

LARGE BORE

A bore that is larger than the standard for a given fitting; a fitting ordered with a large bore will have a larger flow orifice than the standard or capillary bore fitting of the same design. Denoted by suffix "L" in the product number.

LUER ADAPTER

An adapter that connects a tapered luer fitting (square nib) of a syringe to a tube or tube fitting.

Μ

MALE NUT

A nut with male threads.

MAKE UP

The point at which a ferrule, nut, and tube are assembled in the fashion which will effect a leak-free seal. In most compression fittings, that is accomplished by compressing the tube with the small end of the ferrule. With Valco metal ferrules, the ferrule usually makes up on the tube by cutting a shallow ring in it.

MANIFOLD

A type of distribution fitting in which a single source is directed to multiple outlets, or vice versa. Caution! Using a common distribution fitting in reverse to merge multiple streams may create dead volume. Special manifolds are available for this application.

MICROBORE COLUMN

A liquid chromatography column of narrow bore (typically 2 mm or less) for improved resolution.

Ν

NPT

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

NANOBORE

Nanobore generally refers to components with bore sizes less than 250 µm (0.010").

NANOVOLUME®

The trademark registered to Valco Instruments Co. Inc. and VICI AG International, applied to our nanobore components with bore sizes less than 250 µm (0.010").

Glossary

GENERAL REFERENCE



NUT

The tensioning component of a compression fitting. As the threaded nut is tightened into the fitting detail, it pushes the ferrule forward into the tapered ferrule seat, causing it to make up on the tube.

0

OD

Outside diameter.

ONE-PIECE FINGERTIGHT

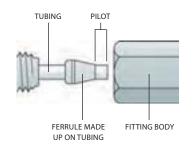
A one-piece fingertight fitting is a knurled or winged nut with integrated ferrule. It is convenient to use since the ferrule is retrieved from the port with the nut.

Note: Polymer type ferrules rely on surface compression to form a seal and hold the tube by friction.

Ρ

PILOT

The tubing which extends beyond the ferrule in a made-up fitting, or the integral portion of a ZRF internal reducing ferrule which extends beyond the ferrule. See also pilot depth, below.



PILOT DEPTH

The length of the tubing diameter cavity beyond the tapered ferrule seat within a fitting detail. Valco fitting pilot depths are tightly controlled to facilitate the interchangeability of components without the risk of leaks or dead volume.

PIPE THREAD

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

PLUG

A plug is used to block a fitting detail in a union, tee, cross, or valve.

R

REDUCING FERRULE

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

REDUCING UNION

A fitting which joins two tubes of different ODs. The bore of the fitting should typically match the ID of the smaller tube.

S

SFE

Supercritical Fluid Extraction.

An extraction technique using a fluid in its supercritical state as the extraction medium. Some liquids and mixtures maintained above a critical temperature and pressure exhibit properties of both the liquid and gas phases of the element. These are defined as supercritical. CO_2 is a common supercritical fluid. Extreme caution must be used with supercritical CO_2 , since uncontrolled expansion (leaks) can be very hazardous due to the substantial stored energy.

SFC

Supercritical Fluid Chromatography. An analytical technique using a supercritical fluid (see SFE) as the mobile phase/carrier.

STANDARD BORE

A bore which was chosen as the standard for a particular fitting, typically based on the most common tubing ID used with that fitting.

Glossary

GENERAL REFERENCE

TEE

A type of distribution fitting which connects three pieces of tubing, arranging them in the pattern of a "T".

THROUGH-TYPE BORE

A bore which is slightly larger than the OD of the tubing which is used with the given fitting. A union with a through-type bore allows the tube ends to butt directly together, or for one tube to run completely through the fitting. Denoted by suffix "T" in the product number. In order to assure correct pilot lengths, we recommend that ferrules be made up on the tubing in a standard union.

U

UNION

A fitting for connecting two pieces of tubing of the same OD.

See also reducing union.

Female union

A type of compression fitting in which the fitting body has female threads. Also referred to as internal union.

Male union

A type of compression fitting in which the fitting body has male threads. Also referred to as external union.

UNSWEPT VOLUME

The volume of any portion of a fitting which is in the flowpath but which is a different diameter than the primary flow orifice through the tubing/fitting assembly, or any area not directly swept by the fluid flow. This can also be known as "dead volume" if it is very poorly swept.

V

VICI

VICI[®] is an acronym for Valco Instruments Company Inc.

VICI now defines multiple companies which manufacture various products for the analytical industry.

W

WETTED SURFACES

The surfaces which are contacted by the sample stream.

Y

Y ("WYE")

A type of distribution fitting which connects three pieces of tubing, arranging them in the pattern of a "Y". Occasionally referred to as a "wye".

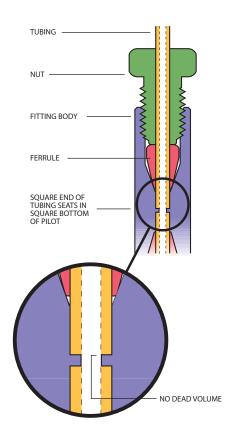
Ζ

ZDV

Zero dead volume. See definition below.

ZERO DEAD VOLUME

Describes a connection which does not add volume to the system beyond what an extension of tubing would in its place.



ZERO VOLUME

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

Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl Conversions • Temperature, pressure, and length



TEMPERATURE CONVERSIONS

°F

°C	°F	°C
-40	-40	65
-35	-31	70
-30	-22	75
-25	-13	80
-20	-4	85
-15	5	90
-10	14	95
-5	23	100
0	32	105
5	41	110
10	50	115
15	59	120
20	68	125
25	77	130
30	86	135
35	95	140
40	104	145
45	113	150
50	122	155
55	131	160
60	140	165

°C	°F	°C	°F
170	338	275	527
175	347	280	536
180	356	285	545
185	365	290	554
190	374	295	563
195	383	300	572
200	392	305	581
205	401	310	590
210	410	315	599
215	419	320	608
220	428	325	617
225	437	330	626
230	446	335	635
235	455	340	644
240	464	345	653
245	473	350	662
250	482	375	707
255	491	400	752
260	500	425	797
265	509	450	842
270	518	475	887

°C	°F			
500	932			
525	977			
550	1022			
575	1067			
600	1112			
625	1157			
650	1202			
675	1247			
700	1292			
725	1337			
750	1382			
775	1427			
800	1472			
825	1517			
850	1562			
875	1607			
900	1652			
925	1697			
950	1742			
975	1787			
1000	1832			

LENGTH

GENERAL REFERENCE

μm	inches			
100	.004"			
150	.006"			
mm	inches			
0.050	.002"			
0.064	.0025"			
0.075	.003″			
0.100	.004"			
0.13	.005"			
0.15	.006"			
0.18	.007"			
0.20	.008"			
0.25	.010"			
0.38	.015"			
0.40	.016"			
0.50	.020"			
0.75	.030"			
1.00	.039"			
1.50	.059"			
2.00	.079"			
3.00	.118"			
4.00	.157"			
4.60	.181"			
6.00	.236"			
6.35	.250"			
6.40	.252"			
7.00	.276"			
10.00	.394"			
12.70	.500"			
inches	mm			

inches	mm		
1/32"	0.79		
1/16"	1.59		
3/32"	2.38		
1/8"	3.18		
1/4"	6.35		
5/16"	7.94		
3/8"	9.50		
1/2"	12.70		
1"	25.40		
feet	mm		
1 ft	304.8		

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

bar	psi	kPa	MPa
6	87.0	600	0.6
7	101.5	700	0.7
8	116.0	800	0.8
9	130.5	900	0.9
10	145	1,000	1
20	290	2,000	2
30	435	3,000	3
40	580	4,000	4
50	725	5,000	5
60	870	6,000	6
70	1,015	7,000	7
80	1,160	8,000	8
90	1,305	9,000	9

psi	kPa	MPa
1,450	10,000	10
2,900	20,000	20
4,350	30,000	30
5,800	40,000	40
7,250	50,000	50
8,700	60,000	60
10,150	70,000	70
11,600	80,000	80
13,050	90,000	90
14,500	100,000	100
15,950	110,000	110
17,400	120,000	120
18,850	130,000	130
	1,450 2,900 4,350 5,800 7,250 8,700 10,150 11,600 13,050 14,500 15,950	1,450 10,000 2,900 20,000 4,350 30,000 5,800 40,000 7,250 50,000 8,700 60,000 11,600 80,000 13,050 90,000 14,500 100,000 15,950 110,000

Dystrybutor: Genore chromatografia, info@genore.pl, www.genore.pl Index by product number



GENERAL REFERENCE

JR5FR1-5		JR-1065		JR-2FR8-587	JR-55088-10		JR-794 100	JR-CBUMPK50	JR-S-1611377
JR5FR1TI-5		JR-1066		JR-2FR8TI-587	JR-55088-5		JR-795 100	JR-CCPK-131	JR-S-1615282
JR5FR2-5		JR-1067		JR-3217159	JR-55089-10		JR-796 101	JR-C-EN.5FPKB43	JR-S-1800476
JR5FR4-5		JR-1068		JR-3217259	JR-55089-5		JR-797 100	JR-C-EN1FPKB	JR-S-1801476
JR5FR6-5		JR-10FR1-5		JR-3217459	JR-5508X-12		JR-798 100	JR-CFE-S10-556	JR-S-1805382
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JR-032-10		JR-10FR4-5		JR-357090 100	JR-55090-5		JR-8000-0495-261	JR-CFL-2W-S51	JR-S-1835382
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JR-070112-10	54	JR-201928-10	47	JR-55015-523	JR-67140-1B	.92	JR-C360ET44	JR-S-1101271	JR-SLR-112-7797
JR-070113-10		JR-201999	79	JR-55016-1223	JR-67140-2B	92	JR-C360NFFS45	JR-S-1101371	JR-SLR-11397
JR-070123-10	54	JR-201999-10	55	JR-55020-526	JR-67-250-2A	92	JR-C360NFPK44	JR-S-1105280	JR-SLR-113-7797
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		JR-2042 JR-2043		JR-5507-526	JR-68252TI		JR-C360RU1PK644	JR-S-1500173 JR-S-1500273	JR-SLR-2200
JR-075012				JR-55080-1023	JR-68252TI2		JR-C360RU1S6645	IR_S_15002	JR-SLR-2201
JR-075013		JR-26501		JR-55080-523	JR-68253		JR-C360UFS245	JR-S-1500373	JR-SLR-2202
JR-082		JR-26502		JR-55081-1023	JR-68256		JR-C360UFS445	JR-S-1501171	JR-SLR-220495
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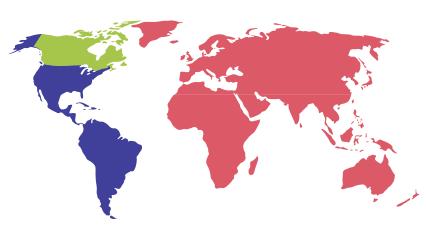


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