



VICI JOUR - Filters and Mobile Phase Filters

VICI JOUR PRODUCTS

- Tubing for chromatography
- High pressure fittings
 - Nanovolume
 - Stainless steel
 - Polymeric
- Low pressure fittings
- Filters & mobile phase filters
- Mobile phase handling systems
- Frits
- PEEK columns & guard columns
- Sample loops
- Accessories/miscellaneous

CUSTOMER SUPPORT

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

Filters and Mobile Phase Filters

Mobile phase filters

- Last Drop mobile phase filter
- Last Drop – economy version
- Last Drop filter/sparger
- No Met biocompatible mobile phase filter
- Stainless steel mobile phase filter

Helium spargers

- Last Drop filter/sparger
- Stainless steel helium sparger

Low pressure in-line filter cartridges

High pressure filters

- PEEK in-line filter kit
- Sure-Guard disposable in-line filter
- Stainless steel in-line filter
- PEEK pre-column filter kit



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VICI JOUR - Mobile Phase Handling Systems

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

Mobile Phase Handling Systems

- Safety-coated glass bottles
- VICI-Cap
- Eco-Cap
- SolviFlex
- Check valve for helium sparging line



CUSTOMER SUPPORT

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CUSTOMER SUPPORT

Safety-coated Glass Bottles

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

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



Note:

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

Safety-coated Glass Bottles

Pressure rating: 0.8 bar (11.6 psi)

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

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CUSTOMER SUPPORT

Further Reference

- Safety-coated bottles
- SS filters
- PTFE tubing
- Flangeless PEEK nuts
- EFTE ferrules

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

VICI-Cap

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



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

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

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

Note:

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

VICI-Caps

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

VICI-Cap Kits

Description	Product No.
Basic kit	JR-9000-0002



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CUSTOMER SUPPORT

SolviFlex

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

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

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



Note:

Color and design of S40 caps may differ from illustration.

SolviFlex

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

Further Reference

- [Safety-coated bottles](#)
- [SS filters](#)
- [PTFE tubing](#)

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CUSTOMER SUPPORT

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

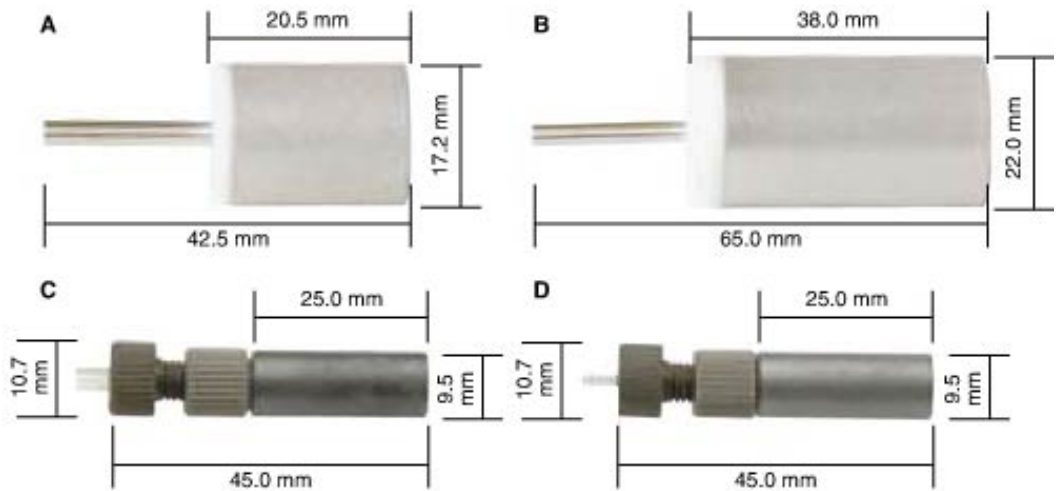
Mobile Phase Filters and Helium Spargers

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

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

VICI Jour helium spargers (2 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.

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



No-Met Biocompatible Mobile Phase Filter

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



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Check Valve for Helium Sparging Line

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

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



Materials

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

Low Pressure Check Valve

Cracking pressure is 0.1 bar (1.5 psi)

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

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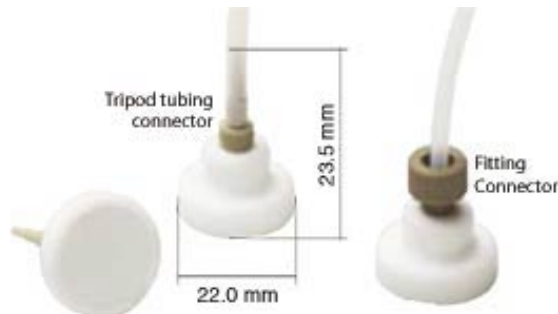
Sample loops

Accessories/miscellaneous

CUSTOMER SUPPORT

Last Drop Mobile Phase Filter

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



The Last Drop mobile phase filter

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

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

Last Drop Mobile Phase Filters

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

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

Spare Parts

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

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CUSTOMER SUPPORT

Last Drop Economy Mobile Phase Filter

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

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

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



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

Economy Last Drop Mobile Phase Filters

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



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CUSTOMER SUPPORT

Last Drop Filter/Sparger

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

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

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



Last Drop Filter/Spargers

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

10 µm

JR-9000-
0642

Spare Parts

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

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CUSTOMER SUPPORT

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

No-Met Biocompatible Mobile Phase Filters

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



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

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

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



No-Met Biocompatible Mobile Phase Filter

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



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Technical info

Physical data

Main VICI site

In-Line Low/Medium Pressure Filter for LC

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



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

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

Dimensions

Tolerance: ± 0.05 mm (.002")

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

Thickness: 2.03 mm

Bore: 0.8 mm

Filter surface diameter: 2 mm

No-Met Biocompatible Mobile Phase Filter

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

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