



C0577

INDEX

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

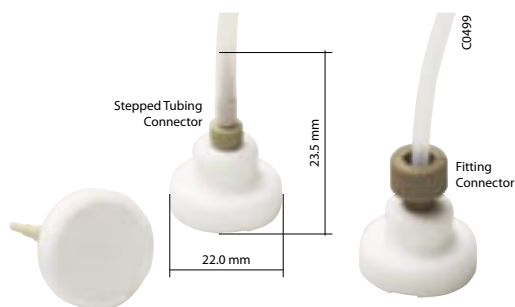


Last Drop Mobile Phase Filter

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

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

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



Last Drop Mobile Phase Filters

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

SPECS

Materials

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

Dimensions

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

Spares & Tools

For spare parts see chart on page 66

Last Drop Filter/Spargers

SPECS

Materials

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

Dimensions

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

Tech Tip

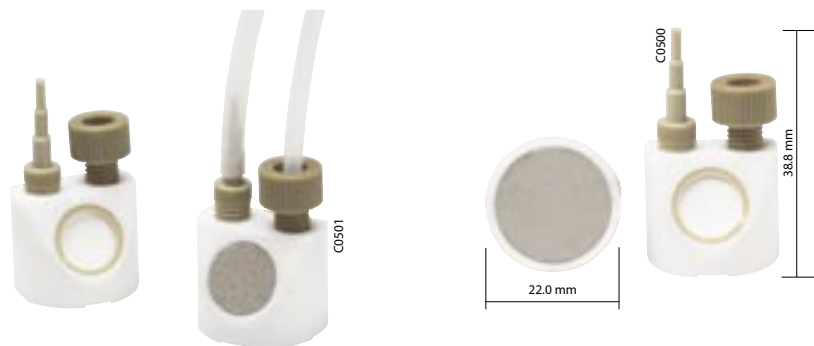
We recommend our No-Ox tubing to prevent "regassing" of Helium degassed solvents (see page 18)

Last Drop Filter/Spargers

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

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

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



Last Drop Filter/Spargers

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

Spare Parts

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

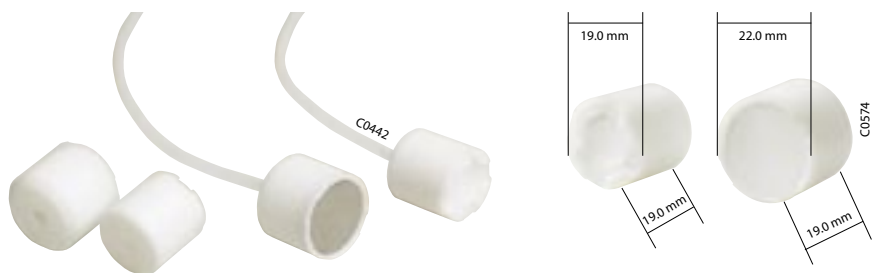


Economy Last Drop Mobile Phase Filters

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

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

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



Economy Last Drop Mobile Phase Filter

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

SPECS

Material

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

Dimension

For 1/8" OD tubing
Others: see illustration

Tech Tip

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

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

No-Met Biocompatible Mobile Phase Filter

SPECS

Material

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

Dimension

See illustration

Tech Tip

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

Spares & Tools

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

No-Met Biocompatible Mobile Phase Filter

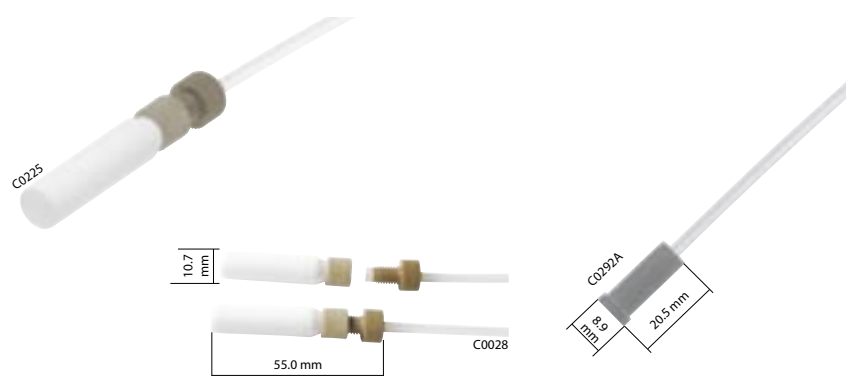
- Very Competitively Priced
- Inert and Biocompatible
- Replacement Filters
- Also Recommended for IC

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

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

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

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



No-Met Mobile Phase Filter

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

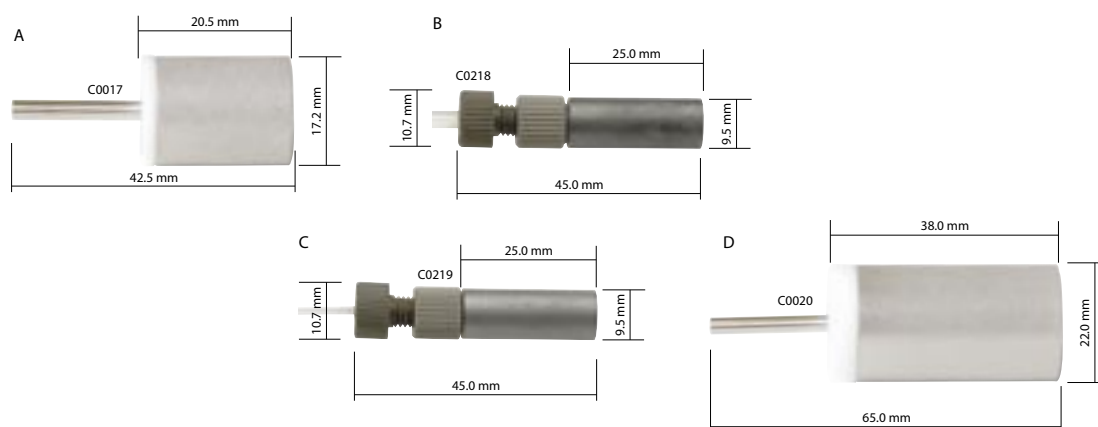


SS Mobile Phase Filters & Helium Spargers

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

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

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



Mobile Phase Filters & Helium Spargers

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

SPECS

Material

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

Dimension

See illustration

Tech Tip

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

In-Line Low Pressure Filter Cartridges

SPECS

Material

Cartridge: PTFE/CTFE
Filter Screen: S5316

Dimensions

For All 1/4"-28 fitting details
OD: 5.20 mm
Thickness: 2.03 mm
Bore: 0.8 mm
Filter Surface Diameter 2 mm

Tolerances

+/- 0.05 mm (.002")

Tech Tip

We recommend using these Filter Cartridges in combination with the VICI Unions on page 56. They can be used with other LP solvent line connectors like our Tees, Crosses & Manifolds on page 58 or our VICI Manual Flow Selection Valves on page 60.

In-Line Low Pressure Filter Cartridges

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

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

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



In-Line Low/Medium Pressure Filter for LC

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



PEEK In-Line Filter Kit – High Pressure

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

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

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

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



In-Line Filter Kit – High Pressure

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

Spare Parts

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

SPECS

Material

Body: PEEK
Frit: see chart

Dimensions

Bore 0.25 mm/0.4 mm
See illustration

Threads

10-32 female

Pressure rating

< 350 bar (< 5000 psi)

Tech Tip

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

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

Calculation of frit volume: see Tech Info on page 109

PEEK Pre-Column Filter Kit – High Pressure

SPECS

Material

Body: PEEK
Frit: see chart

Dimensions

Bore 0.25 mm/0.4 mm
See illustration

Threads

10-32 female to 10-32 male

Pressure rating

< 350 bar (< 5000 psi)

Tech Tip

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

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

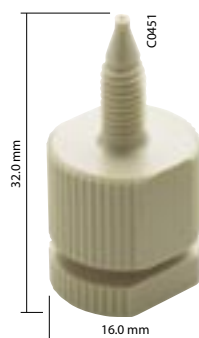
Calculation of frit volume:
see Tech Info on page 109

PEEK Pre-Column Filter Kit – High Pressure

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

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

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



PEEK Pre-Column Filter Kit – High Pressure

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

Spare Parts

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



Sure-Guard

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

The VICI Jour Sure-Guard disposable In-Line filter offers an easy and inexpensive way of protecting valuable columns against fines and particles. It is easily connected directly to any column with an

inlet for 1/16" OD tubes and 10-32 threads. The VICI Jour Sure-Guard can be changed in seconds without tools.



Sure-Guard

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

SPECS

Material

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

Dimensions

Bore 0.4 mm
See illustration

Threads

10-32 female to 10-32 male

Pressure rating

< 350 bar (< 5000 psi)

Tech Tip

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

Spares & Tools

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

Calculation of frit volume:
see Tech Info on page 109

SS High-Pressure In-Line Filter

SPECS

Material

Body: SS316,
Frit: PEEK encased SS316

Dimensions

Bores: see chart
Others: see illustrations

Filter Dimensions

See page 85

Threads

10-32 female to 10-32 female

Tolerances

+/- 0.05 mm (.002")

Pressure rating

< 350 bar (< 5000 psi)

Tech Tip

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

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

Calculation of frit volume:
see Tech Info on page 109

SS High-Pressure In-Line Filter

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

The VICI Jour SS In-Line Filter has virtually no hold-up volume and can be used in various applications without significant band broadening or loss of efficiency. The 0.25 mm bore versions are intended for analytical use between autosampler/injection valve and column. The 0.75 mm bore versions are suitable

for higher flow rates in semi prep systems or for solvent supply from pump to autosampler with minimal dead volume. These in-line filters are the ideal column protectors and available with frit porosities of 0.5, 2 or 5 µm.



SS High-Pressure In-Line Filter

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

Spare Parts

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