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ECHnology Pty Ltd
Australian Distributors; Importers & Manufacturers

VICI Safety Products

NEW

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

The benefits of the new VICI Jour Safety products are:

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

For that reason VICI Jour developed:

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



VICI Safety Exhaust Filter

VICI Safety Exhaust Filter **NEW**

CLEAN LAB AIR WITH THE VICI JOUR SAFETY EXHAUST FILTER

– Universal 1/4"-28 UNF thread

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

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

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

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

Function:

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

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

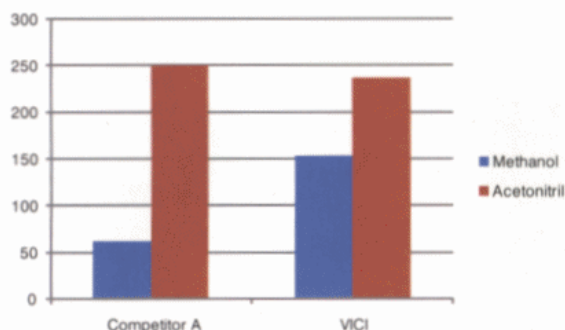
Solvent vapors in the ambient air can adversely affect the health of the lab-workers.

SPECS

Materials

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

Filter capacity mg/g absorbent

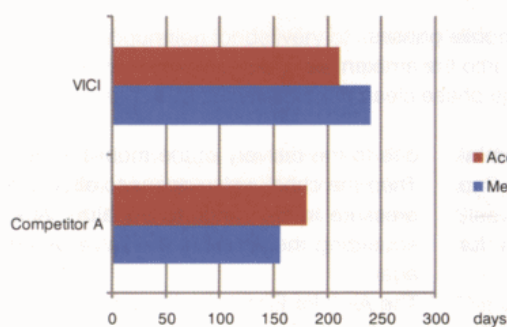


Capacity of absorbent of different suppliers for most common used organic solvents in HPLC.

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VICI Safety Exhaust Filter

Filter life-time* (d)



*calculated, based on results of our tests

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

Safety Exhaust Filter

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

Adapter

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



VICI Safety Air Inlet Filter

VICI Safety Air Inlet Filter

NEW

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

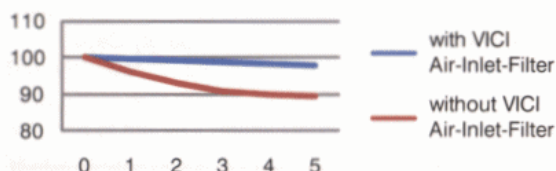
The VICI Air Inlet Filter is used in combination with a VICI Safety Cap or VICI Cap used for solvent delivery. A stable mobile phase is necessary for stable and reproducible analysis.

Function:

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

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

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



Changing of the composition of a Standard HPLC mobile phase



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

Safety Air Inlet Filter

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

Safety Outlet Filter

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

SPECS

Special Info

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

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

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



SPECS

Material

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

Threads

1/4"-28

Pressure rating

5 bar (73 psi)

VICI Safety Caps **NEW**

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

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

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

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

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

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



VICI Safety Caps

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



VICI Safety Cap Kits

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



Spare Parts

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

For Color-Sleeve-Fingertight adapter see page 61

VICI Caps

VICI Caps

NEW

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

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



SPECS

Material

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

Threads

1/4"-28

VICI Caps

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

VICI Cap Kits

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

Spare Parts

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

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Safety-Coated Glass Bottles

SPECS

Material

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

Pressure Rating

0.8 bar (11.6 psi)

Special Info

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

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

Safety-Coated Glass Bottles

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

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

These glass bottles with GL45 screw threading are made of chemical resistant Borosilicate 3.3 and coated on the outside with a layer of sturdy polymer. The chances of breaking the bottle, when dropping it, will decrease. Even if the bottle breaks, glass fragments will be kept

within the polymer coating. Solvents will be kept within the coating for a short while.

The coating also protects solvents against UV light up to 385 nm.

These safety-coated glass bottles can't be autoclaved.



Safety-Coated Glass Bottles

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

NEW

Eco-Cap

Eco-Cap

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

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

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



Eco-Cap

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

Spare parts

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

For polymeric tubing see pages 16–27.

SPECS

Material

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

Dimensions

For GL45 or S40 threads
(see chart)

Bores

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

Special Info

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

Tech Tip

Once the mobile phase is degassed, we recommend our Impermeable tubing between bottle cap and pump to prevent "regassing" of helium degassed solvents (see page 18)

SPECS**Material (wetted parts)**

Tubing: PFA

Filter: PE

Ferrules: ETFE

Dimension

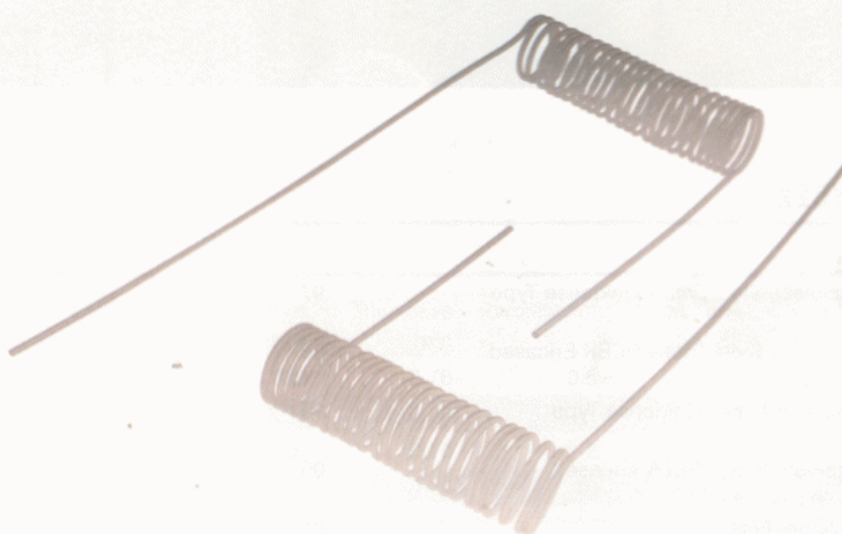
1/8" Tubing OD

Solviflex

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

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

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

**Solviflex**

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