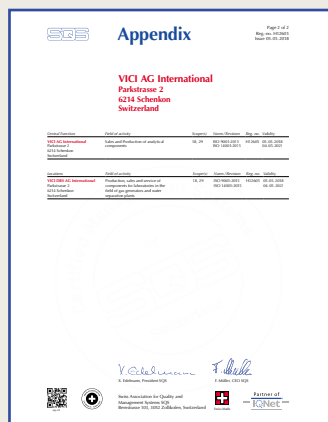




VICI
JOUR

SAFETY PRODUCTS

i CERTIFICATIONS



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 9001:2015, 14001:2015 and 45001:2018, and is the first ISO-certified manufacturer of high pressure and low pressure valves for scientific equipment.

VICI JOUR PRODUCT LINE

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:

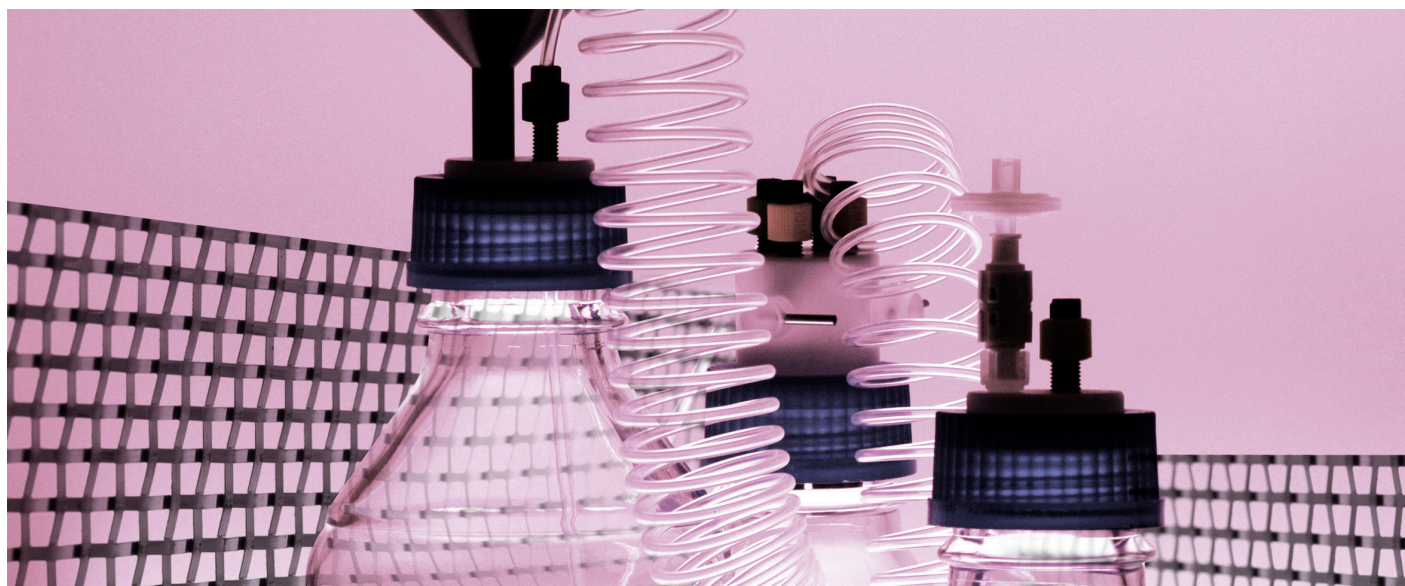
- Fittings - high pressure polymeric and stainless, Nanovolume® PEEK and stainless, and low pressure
- Tubing and sample loops
- Safety products and mobile phase handling systems
- Filters and frits
- PEEK columns and guard columns

i CERTIFICATION

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



SAFETY PRODUCTS



AND MOBILE PHASE HANDLING SYSTEMS

- Save cost on solvents
- Avoid hazardous air 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

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SOLVIFLEX TUBING.....

19
Flexible coiled PFA tubing expands and contracts, giving flexibility to move mobile phase bottles on the bench.

SPECIAL APPLICATION FILTERS

Carbon dioxide filter	20
Humidity filter	20

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 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 µm cellulose filter will keep mobile phase liquid 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		JR-S-20003
With 15 mm filter		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.
- Safety air inlet valves and safety air outlet valves should 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.

SEE ALSO

Safety caps..... 5-6
VICI caps 7-10

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



SAFETY EXHAUST FILTERS

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

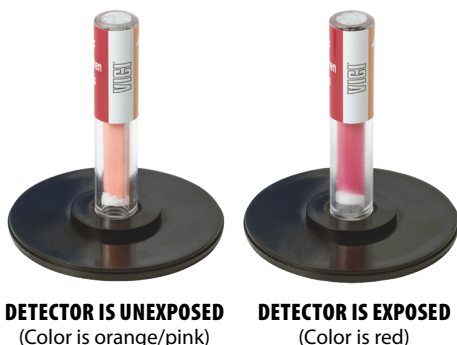
Our improved exhaust filter is the center of the VICI Jour safety program, ridding ambient air of solvent vapors which could adversely affect the health of lab workers. When placed on the waste bottle of an HPLC system, the specially-treated absorbent filters out nearly all organic solvent vapor evaporating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




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

Safety exhaust filters

1/4-28

SPECIFICATIONS	
CONNECTIONS	
1/4-28	
MATERIALS	
Filter housing	POM
Detector housing	PC
Frits	Polyethylene
O-ring	NBR (O-ring is not a wetted part)

Description	Product No.	
Exhaust filter	With breakthrough detector	JR-S-20005
	Without detector	JR-S-20002
Adapter *		JR-S-40004

* Connects VICI safety exhaust filter to SCAT® waste caps and A.I.T. smart waste caps



NOTE

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

TECH TIPS

- 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.

SEE ALSO

- Carbon dioxide filter 20
- Humidity filter 20
- Safety caps 5-6
- VICI caps 7-10

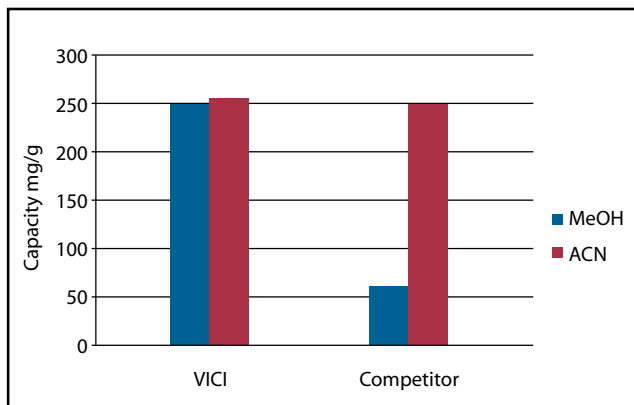
NEW Replacement exhaust filter kits

1/4-28

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

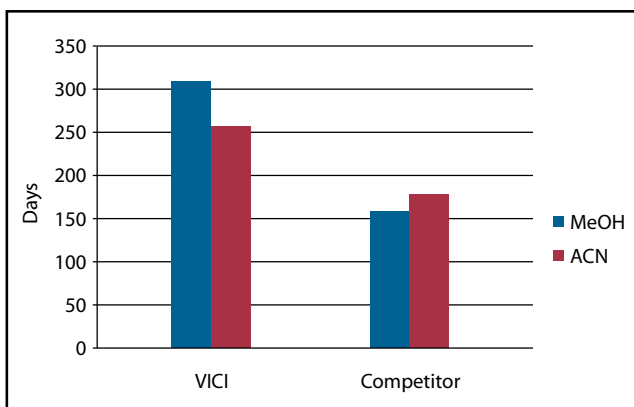
Description	Product No.	
Exhaust filter kit	JR-S-35	
<i>Kit includes:</i>	<i>Qty</i>	<i>Product No.</i>
Exhaust filters with breakthrough detectors	3	JR-S-20005
Carrying case	1	JR-S-35L
Exhaust filter kit without detectors	JR-S-36	
Exhaust filters without breakthrough detectors	3	JR-S-20002
Carrying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





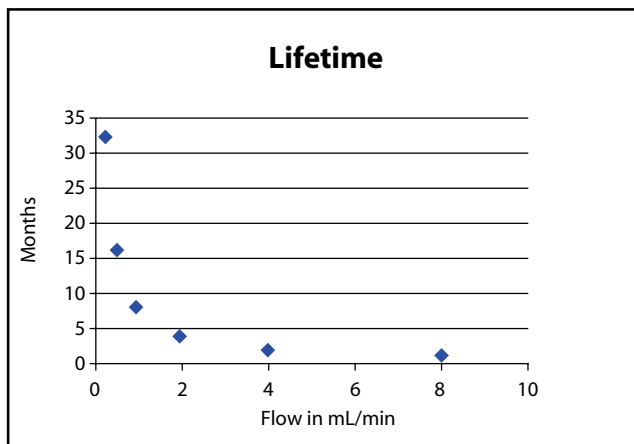
OPTIMIZED ADSORBENT OF SAFETY EXHAUST FILTERS

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: a higher temperature leads to an 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.

ADDITIONAL APPLICATIONS

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 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

GL45 THREADS

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, 5 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:	No. of ports	1 Liter	2 Liters
		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, order:

O-ring, FEP-coated, GL45	JR-S-40008
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SPECIFICATIONS

CONNECTIONS

1/4-28

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



Spare parts

FOR SAFETY CAP/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, economy slip-on connection, 5 µm pore		1	JR-32174
PFA tubing, 1/8" x 1.59 mm x 3m		1	JR-T-4003-M3

MORE INFO

Spare parts for Safety caps and kits. 5-6

TECH TIP

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

SEE ALSO

Safety-coated bottles (for additional sizes) . 19
Safety air inlet valves . . . 2

Safety caps

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



- Fit 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.



Safety cap, GL45	No. of ports Product No.	
	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.



For improved chemical resistance, order:		Product No.
O-ring, FEP-coated, GL45		JR-S-40008

GL45 THREADS

INCLUDES

- 1 cap, GL45 thread, with stopcocks
- 1 O-ring, EPDM
- 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

Safety caps

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



- Fit 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.



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



DIN50 THREADS

INCLUDES

- 1 cap, DIN50 thread, with stopcocks
- 1 O-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

Spare parts

FOR SAFETY 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
Barbed hose adapter for 1/8" ID tubing		1	JR-075013
Color-Sleeve adapters, 12 colors (2 each)		24	JR-5508X-24
PFA tubing, 1/8" x 1.59 mm x 3m		1	JR-T-4003-M3

NOTE

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

SEE ALSO

Air inlet valves..... 2
Exhaust filters 3-4

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
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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

Description Product No.

VICI cap kit	JR-S-32
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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



GL45 THREADS

SPECIFICATIONS

CONNECTIONS

1/4-28

MATERIALS

Closure	PP (Polypropylene)
Insert	PTFE
O-ring	EPDM
Nuts	PPS
Ferrules	ETFE
Sleeves	PP
Filter	Polyethylene

➔ MORE INFO

For further information on efficiency of VICI Caps, refer to a study performed by an independent testing institute. The full study can be downloaded at https://www.vici-jour.com/safety/assets/Jour_Study_Safety_Caps.pdf

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.

Efficiency of VICI Caps was measured by an independent testing institute.

Download the full study from https://www.vici-jour.com/safety/assets/Jour_Study_Safety_Caps.pdf

- 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 bottom-sealing barbed adapter to connect 1/8" (3.2 mm) ID tubing (order from "Spare Parts", page 75).



VICI cap / bottle kit

GL45 THREADS

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, 5 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:	1 Liter		2 Liters	
	No. of ports	Product No.	Product No.	Product No.
VICI cap kit, GL45	2	JR-S-11101	JR-S-11201	JR-S-11201
	3	JR-S-11102	JR-S-11202	JR-S-11202
	4	JR-S-11103	JR-S-11203	JR-S-11203

Product No.

For improved chemical resistance, order:

O-ring, FEP-coated, GL45	JR-S-40008
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SPECIFICATIONS

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

VICI caps

GL45 THREADS

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

- Fit 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.

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



6 port 7 port
PTFE CAP INSERTS

SPECIFICATIONS

CONNECTIONS

1/4-28

MATERIALS

Closure	PP (Polypropylene)
Insert	PTFE
O-ring	EPDM (optional FEP-coated)
Nuts	PPS
Ferrules	ETFE
Sleeves	PP



MORE INFO

Spare parts for VICI caps and kits 10

For further information on efficiency of VICI Caps, the full study can be downloaded by scanning the QR code to the right ----->

TECH TIP

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



VICI caps

S40 THREADS

INCLUDES

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



- Fit all bottles 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
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SPECIFICATIONS

CONNECTIONS

1/4-28

MATERIALS

Closure	PP* (Polypropylene)
Insert	PTFE
O-ring	EPDM
Nuts	PPS*
Ferrules	ETFE
Sleeves	PP*

*not a wetted part

VICI caps

DIN50 THREADS

INCLUDES

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



- Fit 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 Product No.

VICI cap, DIN50	2	JR-S-15001
	3	JR-S-15002
	4	JR-S-15003



SPECIFICATIONS

CONNECTIONS

1/4-28

MATERIALS

Closure	PP (Polypropylene)
Insert	PTFE
O-ring	EPDM/NBR
Nuts	PPS
Ferrules	ETFE
Sleeves	PP

VICI caps

GL38 THREADS

INCLUDES

- 1 cap, GL37/430 thread
- 1 O-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



- Fit all bottles or canisters with GL38/430 thread (See NOTES, below left)
- 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

SPECIFICATIONS

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

i GL38 NOTES

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.

Spare parts

FOR VICI CAP/BOTTLE KITS

		Qty/pkg	Product No.
Safety-coated bottle with solid cap	1 Liter	1	JR-9000-0005
	2 Liters	1	JR-9000-0010
No-Met biocompatible mobile phase filter, economy slip-on connection, 5 µm pore		1	JR-32174
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
	Polypropylene		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

STUDY OF VICI CAPS

The efficiency of VICI Caps was measured by an independent testing institute. The results show that the use of VICI Caps

- Improved chromatographic results
- Prevents any contamination of the environment

The full study can be downloaded at https://www.vici-jour.com/safety/assets/Jour_Study_Safety_Caps.pdf or by scanning the QR code to the right ---->



SCAN ME

SEE ALSO

Safety-coated bottles
(for additional sizes) . 19
Safety air inlet valves . . . 2

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.

Efficiency of VICI Caps was measured by an independent testing institute. Download the full study by scanning the QR code to the right ----->

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 14)



NOTE

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



Waste caps

GL45 THREADS

INCLUDES

- 1 cap
- 1 O-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 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

SPECIFICATIONS

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 adapter	PA/PP

Waste caps

GLS80 THREADS

INCLUDES

- 1 cap
- 1 O-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, with 1/4" plug	JR-S-18004
	M10 x 1 thread for barbed adapter *	JR-S-18014

* Order barbed adapter separately, bottom of page 14

SPECIFICATIONS

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 adapter	PA/PP

MORE INFO

Spare parts for waste caps 14

SEE ALSO

Waste caps
B53 threads 13
B83 threads 13

Waste caps

DIN60 THREADS

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



- Fits all bottles or canisters with DIN60 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, DIN60		
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 14

INCLUDES

- 1 cap
- 1 O-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

S51 THREADS

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



- Fits all bottles or canisters with S51 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, S51		
Fourth port:	1/2-20 thread for 1/4" OD tubing, with 1/4" plug	JR-S-15103
	M10 x 1 thread for barbed adapter *	JR-S-15113

* Order barbed adapter separately, bottom of page 14

INCLUDES

- 1 cap
- 1 O-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

S61 THREADS

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



- 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:	1/2-20 thread for 1/4" OD tubing, with 1/4" plug	JR-S-16103
	M10 x 1 thread for barbed adapter *	JR-S-16113

* Order barbed adapter separately, bottom of page 14

INCLUDES

- 1 cap
- 1 O-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

➔ SEE ALSO

- Exhaust filters 3-4
- Air inlet valves 2

Waste caps

B53 THREADS

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

Product No.

Waste cap, B53		
Fourth port:	1/2-20 thread for 1/4" OD tubing, with 1/4" plug	JR-S-15303
	M10 x 1 thread for barbed adapter*	JR-S-15313

* Order barbed adapter separately, on the next page



SPECIFICATIONS	
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 adapter	PA/PP

Waste caps

B83 THREADS

- INCLUDES**
- 1 cap
 - 1 O-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 next page



SPECIFICATIONS	
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 adapter	PA/PP

NOTE

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

SEE ALSO

Waste caps

- DIN60 threads 12
- GL45 threads 11
- GLS80 threads 11
- S51 threads 12
- S61 threads 12
- Exhaust filters 3-4
- Air inlet valves 2

Spare parts

FOR WASTE CAPS

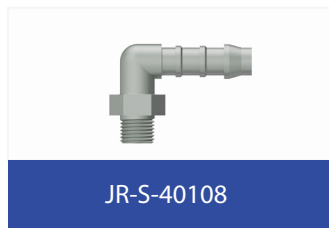
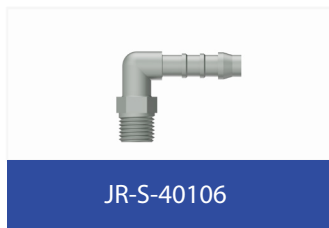
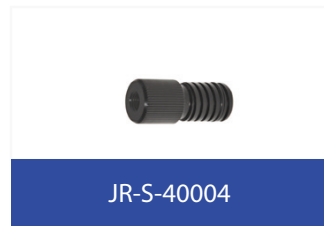
			Qty/pkg	Product No.
1/4-28 flangeless nuts	PPS	1/16" OD	10	JR-55070-10
		1/8" OD	10	JR-55071-10
Inverted ferrules	ETFE	1/16" OD	10	JR-041-10
		1/8" OD	10	JR-051-10
1/2-20 nut	POM	1/4" OD	1	JR-CFL-4D
Collapsible ferrule	CTFE	1/4" OD	1	JR-CFL-CB4KF-S
Plug, 1/4-28	PEEK		1	JR-409
	Polypropylene		1	JR-201999
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

Tube 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
Adapter for Exhaust filter in SCAT/AIT Caps	POM		1	JR-S-40004

Tube 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
T	PA	4 mm ID	1	JR-S-40404
	PA	6 mm ID	1	JR-S-40406



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 caps

GL38 THREADS

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)



- 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

Product No.

Multi cap, GL38	JR-S-13011
-----------------	------------

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 caps

GL45 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)



- 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
-----------------	------------

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 caps

DIN50 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)



- 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
------------------	------------

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 caps

S51 THREADS

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)



- 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.

Multi cap, S51	JR-S-15152
----------------	------------

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

B53 THREADS

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)



- Fits all bottles or canisters with B53 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, B53	JR-S-15352
----------------	------------

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

DIN60 THREADS

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)



- 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
------------------	------------

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

S61 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)



- 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

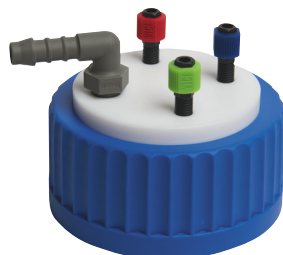
Closure	PP/PE
Insert	PTFE
O-ring	NBR
Nuts	PPS/POM
Ferrules	ETFE
Barbed adapters	PA
Plugs	PP (1/4"-28) PA (M10x1)

NEW Multi caps

GLS80 THREADS

INCLUDES

- 1 cap
- 1 O-ring
- 3 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

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

B83 THREADS

INCLUDES

- 1 cap
- 1 O-ring
- 3 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 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)

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

SPECIFICATIONS	
MATERIALS	
Screw collar	PP (Polypropylene)
Pouring ring	PP
Insert	ETFE
O-ring	EPDM
Luer plug	PP

In addition to an Eco cap with polypropylene male Luer plug, this kit offers a safety bottle (1 or 2L).

	Bottle size	Product No.
Eco cap kit	1 Liter	JR-9000-0013
	2 Liter	JR-9000-0014



INCLUDES

- 1 cap, GL45 thread, with three ports
- 1 safety-coated glass bottle (option: 1 L or 2 L)
- 1 male Luer plug, polypropylene, for 4 mm bore
- 3 m PFA tubing
- 1 No-met filter, 20 µm

Eco cap

GL45 THREADS

SPECIFICATIONS	
MATERIALS	
Screw collar	PP (Polypropylene)
Pouring ring	PP
Insert	ETFE
O-ring	EPDM
Luer plug	PP



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

	Product No.
Eco cap	JR-9000-0007

INCLUDES

- 1 cap, GL45 thread, with three ports
- 1 male Luer plug, polypropylene, for 4 mm bore
- 3 m PFA tubing
- 1 No-met filter, 20 µm

i NOTE

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

t 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 ALSO

Waste caps 11-14

Spare parts

FOR ECO CAP

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

SolviFlex

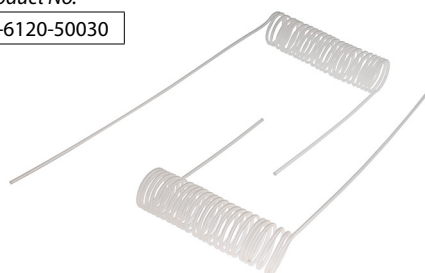
INCLUDES

- ~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 for 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



SPECIFICATIONS

TUBING SIZE

1/8 OD

MATERIALS

Tubing	PFA
Nuts	PPS
Ferrules	ETFE
Filter	PE

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



SPECIFICATIONS

PRESSURE RATING

0.8 bar (11.6 psi)

MATERIALS

Bottle	Borosilicate 3.3 glass
Cap	PP
Pouring ring	PP



A TYPICAL USE OF SOLVIFLEX
Shown installed on a VICI cap and bottle, along with an exhaust filter

NOTES

- 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.

SEE ALSO

- Safety caps 5-6
- Safety cap kit 5
- Safety exhaust filter... 3-4
- VICI caps 7-10
- VICI cap kit 7



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

H₂O

In applications requiring a non-aqueous 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
-----------------	------------

SEE ALSO

Safety
exhaust filters 3-4



- **Capillaries**
- **Tubing**
- **Fittings**
- **Filters**
- **SAFETY-PRODUCTS**
- **TOOLS**
- **ACCESSORIES**

More information On the WEB: <https://www.vici-jour.com>



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