

Sophisticated Safety Solutions for HPLC.



b.safe Caps UHPLC

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b.safe Caps UHPLC

GL45

Screw cap made of PP-GF for GL 45 thread, free movable insert made of PTFE. With PFA Fittings for capillaries with O. D. 3,2 mm (thread UNF 1/4" 28G), blind fittings made of PFA to close unused connections and an Air Valve with service life indicator. Version and scope of delivery as per below chart.

Applications: Perfectly matched system for extraction of eluents. Tubing can be inserted onto the ground of the bottle by means of the b.safe Fittings made of PFA. The conical seal cone clamps the tubing and seals the connection safely. The b.safe Air Valve UHPLC is especially adapted to the flow rate in UHPLC. The integrated non-return valve avoids evaporation of solvents and lets

flow ambient air into the bottle in case of vacuum. The upstream porous PTFE membrane restrains pollutant particles coarse and fine dust, as well as microorganisms carried by it and other contaminations from outside. The 6 months service life of the Air Valve can be easily monitored through either activating the display on the service life indicator and exchanging the valve in case of completely red colouring or documentation of the exchange date by hand and clip on the service life indicator at the valve. Mobile Phrase Caps are a practical and flexible closure option in laboratory supplies, which ensures efficient operation and optimal sealing.



NEW**b.safe Caps GL45 UHPLC**

Material: **PTFE, PP-GF** | Temperature resistance: **0°C to +110 °C** |
Chemical resistance: **++ very good**

Scope of delivery**Cat.No.:*****recomm.
price Euro**

Screw cap made of PP-GF for GL 45 thread, Distributor body made of PTFE with 4 connections UNF 1/4", 1 Air Valves UHPLC with service life indicator, 3x Fittings made of PE for tubing-Ø 3,2 mm, 2x Blind Fittings made of PFA

M 1045-03

125,28

**b.safe Air Valves UHPLC**

Material: **PP** | Temperature resistance: **0°C to +110 °C** |
Chemical resistance: **++ very good**

Valve body made of PP with connection (thread UNF 1/4" 28G) suitable for b.safe Caps. Lid with aeration opening and Luerlock connector, integrated non-return valve with upstream porous PTFE membrane (0,1 µm), including clip-on service life indicator.

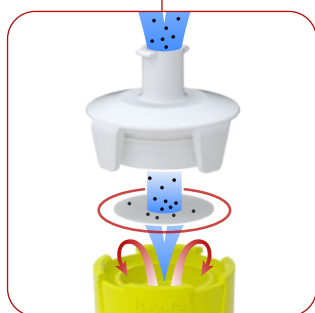
Packing Unit**Service life****Cat.No.:*****recomm.
price Euro**

2 pcs.

6 months

M 551-01

45,19



The upstream membrane with a pore size of 0.1 µm made of porous PTFE effectively retains coarse and fine dust, as well as microorganisms carried by it and other impurities from the outside.



One Luerlock connector, diverse possibilities such as filling the solvent with gas to protect it from oxidation.



Or comfortable connection of dry tubes to keep humidity outside.

b.safe Caps PFAS Analytic

GL45

b.safe Cap PFAS Analytic, free from polyhaloolefins, unrestrictedly suitable for PFAS analysis. Screw cap made of PP-GF for GL 45 thread, free movable insert made of PP. With PE Fittings for capillaries with O. D. 3,2 mm (thread UNF 1/4" 28G), blind fittings made of PE to close unused connections and an Air Valve (Filter membrane PP) with service life indicator.

Applications: Perfectly matched system for extraction of eluents in context of the PFAS analytic. Tubing can be inserted onto the ground of the bottle by means of the b.safe Fittings made of PE. The conical seal cone clamps the tubing and seals the connection safely. The b.safe Air Valve is especially adapted to the flow rate in HPLC. The integ-

rated non-return valve avoids evaporation of solvents and lets flow ambient air into the bottle in case of vacuum. The upstream PP membrane restrains pollutant particles and other contaminations from outside, but does not interfere with the sensitive PFAS analytic. The 6 months service life of the Air Valve can be easily monitored through either activating the display on the service life indicator and exchanging the valve in case of completely red colouring or documentation of the exchange date by hand and clip on the service life indicator at the valve.



NEW

b.safe Caps PFAS Analytic

GL45

Material: **PP-GF** | Temperature resistance: **-50°C to +80 °C** |
Chemical resistance: **++ very good**

Scope of delivery

Cat.No.:

*recomm. price Euro

Screw cap made of PP-GF for GL 45 thread, Distributor body made of PP with 4 connections UNF 1/4", 1 Air Valves PFAS Analytic with service life indicator, 3x Fittings made of PE for tubing-Ø 3,2 mm, 2x Blind Fittings made of PFA

M 445-03

114,84



b.safe Air Valves PFAS Analytic

Material: **PP** | Temperature resistance: **0°C to +110 °C** |
Chemical resistance: **++ very good**

b.safe Air Valve PFAS Analytic, free from polyhaloolefins, suitable for PFAS analysis without restrictions. Valve body made of PP with connection (thread UNF 1/4" 28G) suitable for b.safe Caps. Lid with aeration opening and Luerlock connector, integrated non-return valve with upstream PP membrane (1 µm), including clip-on service life indicator.

Packing Unit

Service life

Cat.No.:

*recomm. price Euro

2 pcs.

6 months

M 405-01

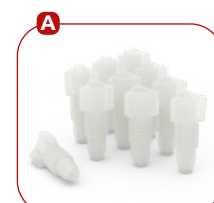
43,31



b.safe Fittings and Blind Fittings PFAS Analytic

Material: **PE** | Temperature resistance: **0°C to +110 °C** |
Chemical resistance: **+++ universal**

	Description	Colour	Packing Unit	Cat.No.:	*recomm. price Euro
A	Fitting for Ø 1,6 mm (1/16")	milky white	10 pcs.	M 401-06	34,48
A	Fitting for Ø 3,2 mm (1/8")	milky white	10 pcs.	M 401-18	34,46
B	Blind Fitting	milky white	10 pcs.	M 401-01	40,18



b.safe PEEK Capillary Tubing

Material: **PEEK** | Temperature resistance: **-50°C to +250°C** |
Chemical resistance: **+++ universal**

Flexible, brown high-pressure tubing for solvent transport.

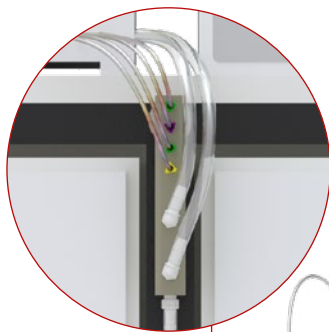
O.D. mm	I.D. mm	Wall thickness mm	Cat.No.:	*recomm. price Euro
(1/32") – 0,80	(1/16") – 1,6	0,4	R 730-02	from 3m 39,16 from 10m 25,37
(1/16") – 1,60	(1/8") – 3,2	0,8	R 730-08	from 3m 71,97 from 10m 58,60



b.safe Desktop Collector

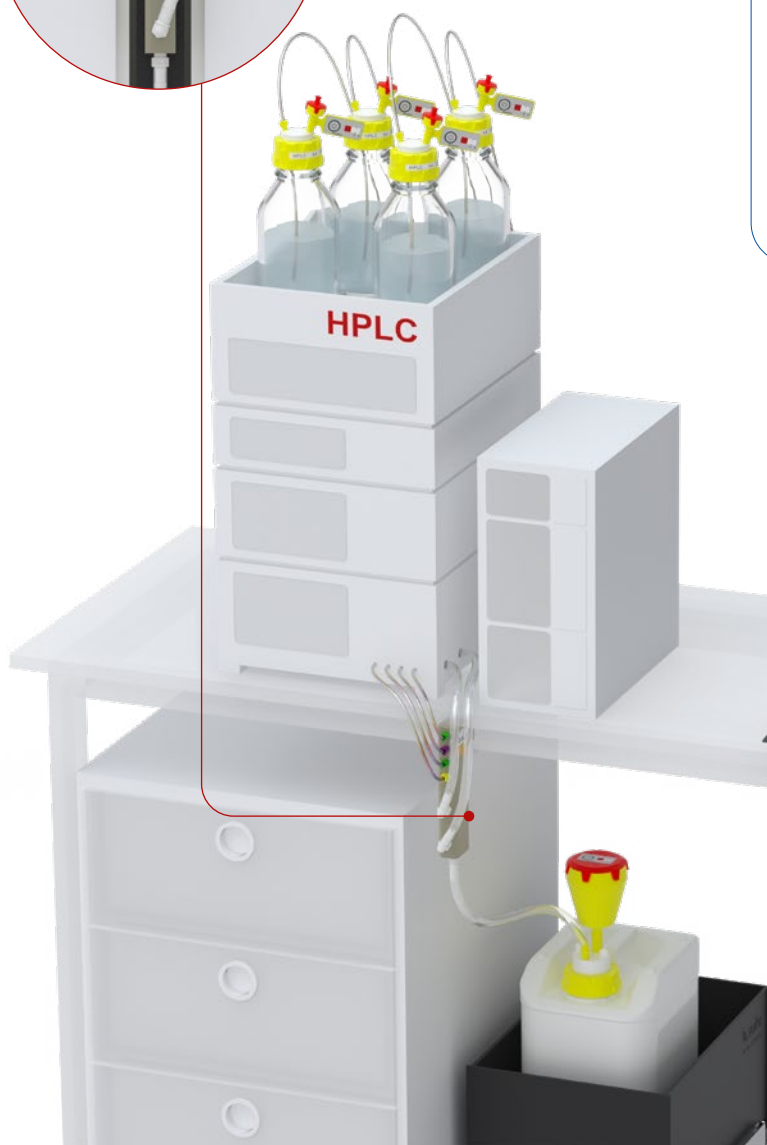
Base plate made of PP, for collecting solvent waste from up to 8 capillaries and 4 hoses and forwarding it via a central hose connection. With PFA-Fittings for capillaries with O.D. 1,6/2,2/3,2 mm (thread UNF 1/4"), tubing connectors for tubing I.D. 6-8 mm (thread NPT 1/8") as well as Blind Fittings for closing unused connections. Easy attachment to the worktable either by magnet or silicone-free adhesive pad.

Applications: Central waste collection from several HPLC systems. Capillaries and hoses are connected without kinks using the b.safe Fittings and b.safe Hose connectors included in the scope of delivery. The liquid solvent waste flows off directly and residue-free via the vertical hole inside the Desktop Collector.



Direct disposal way

- Liquid solvent waste flows safely and quickly, you can connect your HPLC units and directly dispose any liquid solvent waste
- Compact collection connector for one or multiple HPLC units
- Attaches to the edge of the table with an adhesive pad or to a special HPLC table with a magnet
- Waste lines are routed together at table height



NEW



	Number of capillary connectors	Hose Connectors	Number of Fittings mm	Number of Blind Fittings	Abmessungen L x B x T, mm	Attachment by	Cat.No.:	*recomm. price Euro
A	4	2x angle 90° 1x straight	4 x Ø 1,6 (green) 4 x Ø 2,2 (purple) 4 x Ø 3,2 (yellow)	4x UNF 1/4" (milky white) 2x NPT 1/8" (white)	145 x 22 x 32	C Magnet	R 1122-02	101,46
A	4	2x angle 90° 1x straight	4 x Ø 1,6 (green) 4 x Ø 2,2 (purple) 4 x Ø 3,2 (yellow)	4x UNF 1/4" (milky white) 2x NPT 1/8" (white)	145 x 22 x 32	D Adhesive pad	R 1123-02	227,69
B	8	4x angle 90° 1x straight	8 x Ø 1,6 (green) 8 x Ø 2,2 (purple) 8 x Ø 3,2 (yellow)	8x UNF 1/4" (milky white) 4x NPT 1/8" (white)	150 x 36 x 52	C Magnet	R 1122-04	84,34
B	8	4x angle 90° 1x straight	8 x Ø 1,6 (green) 8 x Ø 2,2 (purple) 8 x Ø 3,2 (yellow)	8x UNF 1/4" (milky white) 4x NPT 1/8" (white)	150 x 36 x 52	D Adhesive pad	R 1123-04	156,77

b.safe electronic Level Indicators

To protect your own health, you have closed your waste containers with Waste Caps or Funnels. But how can you avoid a spill over of the canister or a return flow into your HPLC if you cannot see the filling level from outside?

b.safe offers different options for fill level control. We will find solutions and products perfectly adapted to your workflows



b.safe Control Waste Cap

- With permanently fixed cable to connect an Mini-Display
- Rising liquid pushes the integrated float upwards
- When the „container full“ level is reached, the display switches to red and an alarm sounds
- A safety buffer during the alarm prevents overflow
- An indicator pin on the waste caps additionally shows the fill level

b.safe Mini-Display Table

- Optical and visual alarm for timely container replacement
- Easy connection to the b.safe Control Waste Cap
- When the cap's float reaches the „container full“ level, an acoustic signal sounds and the corresponding sensor LED changes from green to flashing red.
- The sensor surface allows the alarm sound to be muted for 5 minutes with a short press, or reset with a long press



b.safe SYSTEM

Mini-Display Wall

For installation in front panels of laboratory furniture.

bsafe.de/en/System/

b.safe Mini-Display Table

Alarm box in plastic housing. Front side with touch buttons and LED indicators to monitor the operation and the fill level of the connected sensors. Optical and acoustic main alarm starting when containers are full and stopping as soon as an empty container is confirmed. Available as 1 channel and 2 channel version, suitable for b.safe Waste Caps with electronic Fill-Level Control. Including power supply (input: AC 100-240 V/50-60 Hz, 0,5 A, output: 24 V DC, 0,5 A) with plugs for EU, Australia, USA, Japan and UK.

	Version	No. of containers to be monitored	Dimensions L x W x H mm	Cat.No.:	*recomm. price Euro
A	1-channel	1	110 x 65 x 30	R 659-01	165,41
B	2-channel	2	110 x 65 x 30	R 659-02	188,61

Applications:

Display unit to monitor connected fill-level sensors in b.safe Waste Caps and b.safe System Waste Caps. Tight plastic case to place it in the work area. Easy operation via touch surface.



b.safe Signal Cabels

To connect e.g. Waste Caps with electronic fill level control or sensors to a b.safe Display to monitor the fill level.

Cable length mm	Connection 1	Connection 2	Cat.No.:	*recomm. price Euro
2	A socket	B plug	R 645-02	17,80
3	A socket	B plug	R 645-03	37,89
5	A socket	B plug	R 645-05	44,63
10	A socket	B plug	R 645-10	48,84



b.safe Waste Cap with electronic Fill-Level Control

Material: **PTFE, PP** | Temperature resistance: **-50°C to +80°C** |

Chemical resistance: **++ very good**

Screw cap made of PP for S55 canister thread, free movable insert made of PTFE with permanently fixed cable (length 400 mm) to connect an electronic Level Indicator (b.safe Mini-Display) as well as sight glass and visual pin for additional optic control of the filling level. With PFA Fittings for capillaries with O. D. 1,6 / 2,2 / 3,2 mm (UNF 1/4" thread), Blind Fittings to close unused connections, 1 hose connector for tube I. D. 5,5 - 8 mm (NPT 1/8" thread) and 1 connector to screw in a b.safe Exhaust Filter (GL14 thread, not included in the scope of delivery). Version and scope of delivery as per below chart.



b.safe Waste Caps with thread S55

	Number of capillary connectors	Number of Fittings mm	Number of Blind Fittings	Hose Connectors	Cat.No.:	*recomm. price Euro
A	3	3 x Ø 1,6 (green) 3 x Ø 2,2 (purple) 3 x Ø 3,2 (yellow)	2 (milky white)	0	M 205-40	372,52
B	2	2 x Ø 1,6 (green) 2 x Ø 2,2 (purple) 2 x Ø 3,2 (yellow)	1 (milky white)	1 x Ø 5,5 - 8 mm	M 205-41	388,29



b.safe Waste Caps with thread S60

	Number of capillary connectors	Number of Fittings mm	Number of Blind Fittings	Hose Connectors	Cat.No.:	*recomm. price Euro
A	3	3 x Ø 1,6 (green) 3 x Ø 2,2 (purple) 3 x Ø 3,2 (yellow)	2 (milky white)	0	M 206-41	389,08
B	2	2 x Ø 1,6 (green) 2 x Ø 2,2 (purple) 2 x Ø 3,2 (yellow)	1 (milky white)	1 x Ø 5,5 - 8 mm	M 206-42	378,66

Applications:

To avoid spill over of canisters through the connection of a Waste Cap to a b.safe Display for electronic level control. The filling levels of waste containers in laboratory cupboards and workbenches can be reliably monitored. The correct function (overfill protection) is only guaranteed when using b.safe canisters with a straight neck and without a pre-connected thread adapter.

b.safe Canister

Canister with S55 thread (DIN51) for the collection of liquid waste. Version as per below Chart.

Volume liters	Dimensions Length x Width x Height mm	Material	Cat.No.:	*recomm. price Euro
5	190 x 150 x 235	PE-HD	R 225-05	17,52
10	230 x 195 x 235	PE-HD	R 225-10	17,53



b.safe Canister

Canister with GL45 thread (DIN45) for the collection of liquid waste. Version as per below chart.

Volume liters	Dimensions Length x Width x Height mm	Material	Cat.No.:	*recomm. price Euro
5	190 x 150 x 255	PE-HD	R 205-05	15,94
10	220 x 190 x 340	PE-HD	R 205-10	17,52



** Recommended prices valid until 31.12.2025*

Also made by Bohlender.

b.safe SYSTEM

Individual System Solutions for Safe Liquid Waste Disposal

Ask for your catalogue or get more information:

www.bsafe.de/en/system or +49 (0) 93 46-92 86-0

A product brand of Bohlender



b.safe HPLC-Abfallsammler Justrite

Collector for assembly on the lateral couplings of Justrite® Disposal Safety Cans for collection of HPLC waste, six connections for capillaries with O. D. 1,6/2,2/3,2 mm (thread UNF 1/4") and seven hose connectors for tubing I. D. 5,5-8 mm (Gewinde NPT 1/8"). Fittings for capillaries, hose connectors and blind fittings to close unused connections are included. Version either with collector and coupling made of polypropylen or with collector made in static dissipative PE-EX.

Applications: For collection of HPLC waste in Justrite® Disposal Safety Cans. Compatible with the standard quick-disconnect couplings in polypropylene and stainless-steel.

	Material Adaptor	For Coupling made of	Number of Fittings	Number of Blind Fittings	Hose Connectors	Cat.No.:	*recomm. price Euro
A	PE-EX	Stainless Steel	6 x Ø 1,6 mm (green) 6 x Ø 2,2 mm (purple) 6 x Ø 3,2 mm (yellow)	6 x milky white 7 x white	2 x 5,5 – 8 mm	M 825-01	194,50
B	PP	PP	6 x Ø 1,6 mm (green) 6 x Ø 2,2 mm (purple) 6 x Ø 3,2 mm (gelb)	6 x milky white 7 x white	2 x 5,5 – 8 mm	M 827-01	168,41



b.safe Exhaust Filter Adapter Justrite

Adaptor for assembly on the lateral couplings of Justrite® Disposal Safety Cans, with connector to screw in a b.safe Exhaust Filter (thread GL14) for venting the disposal can during filling. Version either in PP-grey for a PP-coupling or in PE-black for a stainless steel coupling.

Applications: Adaptor for the use of b.safe Exhaust Filters on Justrite® Disposal Safety Cans in order to restrain solvent vapours from the escaping air during filling with HPLC waste.

	Material Adaptor	Material Coupling	Cat.No.:	*recomm. price Euro
A	PE-black	Stainless Steel	M 815-01	29,34
B	PP	PP	M 817-01	29,34



b.safe Exhaust Filter

Material: **PP** | Temperature resistance: **0°C to +110°C** |
Chemical resistance: **++ very good**

Filter body made of PP with connector (thread GL14) for b.safe Waste Caps. Lid with aeration openings and service life indicator with additional label field to monitor service life. Filling made of activated carbon for adsorption of solvents.

	Size	Service life	Packing Unit	Cat.No.:	*recomm. price Euro
A	Small	3 months	2 pcs.	M 506-01	84,96
B	Medium	6 months	2 pcs.	M 506-02	141,05
C	Large	12 months	2 pcs.	M 506-03	180,56

Applications:

Safe collection of solvents without leakage of harmful solvent vapours. The activated carbon in the b.safe Exhaust Filter restrains solvent vapours from the escaping air during filling. The service life of the filter can be easily monitored through either activating the display on the lid and exchanging the filter in case of completely red colouring or documentation of the exchange date by hand. We recommend the following filter sizes: Size small for up to 5 litres, size Medium for 5-10 litres, and size Large for more than 10 litres.



b.safe Funnels 130 with Level Indicator

Funnel made of static dissipative PE-EX for liquid waste disposal. The funnel can be safely mounted on the waste container with its freely turnable cap that is safely fixed with the filling neck. The sieve restrains magnetic stirrer bars and other solid materials and can be easily removed for cleaning. The hinged lid reliably withholds hazardous vapours from the container. With integrated Level Indicator to monitor the filling level in opaque containers. As soon as the red

indicator pin is visible from up above the top edge of the sieve, the waste container has to be exchanged to avoid spillover.

The version with inclined neck allows a horizontal installation of the funnel on canisters with inclined filling neck without the need of an additional adaptor.





	For thread	Material	Direction of connector	Number of grounding cable	Cat.No.:	*recomm. price Euro
A	S60	PE-EX	vertical	1	R 840-25	228,22
B	S60	PE-EX	inclined	1	R 840-26	228,21



b.safe

A PRODUCT BRAND OF
BOHLENDER GmbH

Waltersberg 8
D 97947 Grünsfeld
Germany

+49 (0) 93 46-92 86-0
info@bohlender.de
www.bsafede

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