

HPLC Product Guide

Highlights & News



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The management of Bohlender GmbH at the Grünsfeld production facility. Pictured (from left): Managing Director Volker Bohlender and Authorized Signatory Silas Bohlender.



Bohlender Crosses the Atlantic - New Sister Company Launches in the USA

The family-owned company BOHLENDER GmbH, founded in 1959 and currently transitioning to the third generation, continues its international growth strategy: With the foundation of BOHLENDER AMERICAS INC. in Alexandria, Virginia (USA) the company strengthens its presence in North and South America.

„With our new subsidiary we will be directly on site - nearer to our customers and partners in the American markets“ says CEO Volker Bohlender. This provides the basis for offering our products and solutions with greater precision and paves the way for further expansion in these regions.

For decades BOHLENDER has been an integral part in the economic landscape in the MAIN-TAUBER district and is reknown for its high-quality laboratory products made of high-performance plastics. The foundation of the US subsidiary is a response to the growing demand from North and South America and focuses on sustainable expansion.

„While many companies are currently viewing the US market with caution, we see this step as a long-term commitment rather than a short-term venture,“ says Silas Bohlender. „Our goal is to capitalize on opportunities with the measured approach, quality, and reliability that define the BOHLENDER brand.“

Our international ambition is reflected in the founding of BOHLENDER AMERICAS INC. and at the same time demonstrates that strong roots in our home region and global presence can go hand in hand.

Three Strong Brands for Your Safety.

With the three brands BOLA, SICCO and b.safe BOHLENDER develops, designs and manufactures high-quality laboratory products made of high-performance plastics - ranging from stirrer shafts to desiccators and safety solutions for HPLC.

b.safe

Safety Solutions for
HPLC.

bsafe.de/en



sicco

Drying Cabinets
Desiccators
Glove Boxes

sicco.de/en



b.safe SYSTEM

System Solutions for Safe
Solvent Waste Disposal

bsafe.de/en/system



BOLA

Professional
Laboratory Solutions
PTFE | PFA | FEP

bola.de/en



NEW

b.safe HPLC Eluent Control Cap

GL45

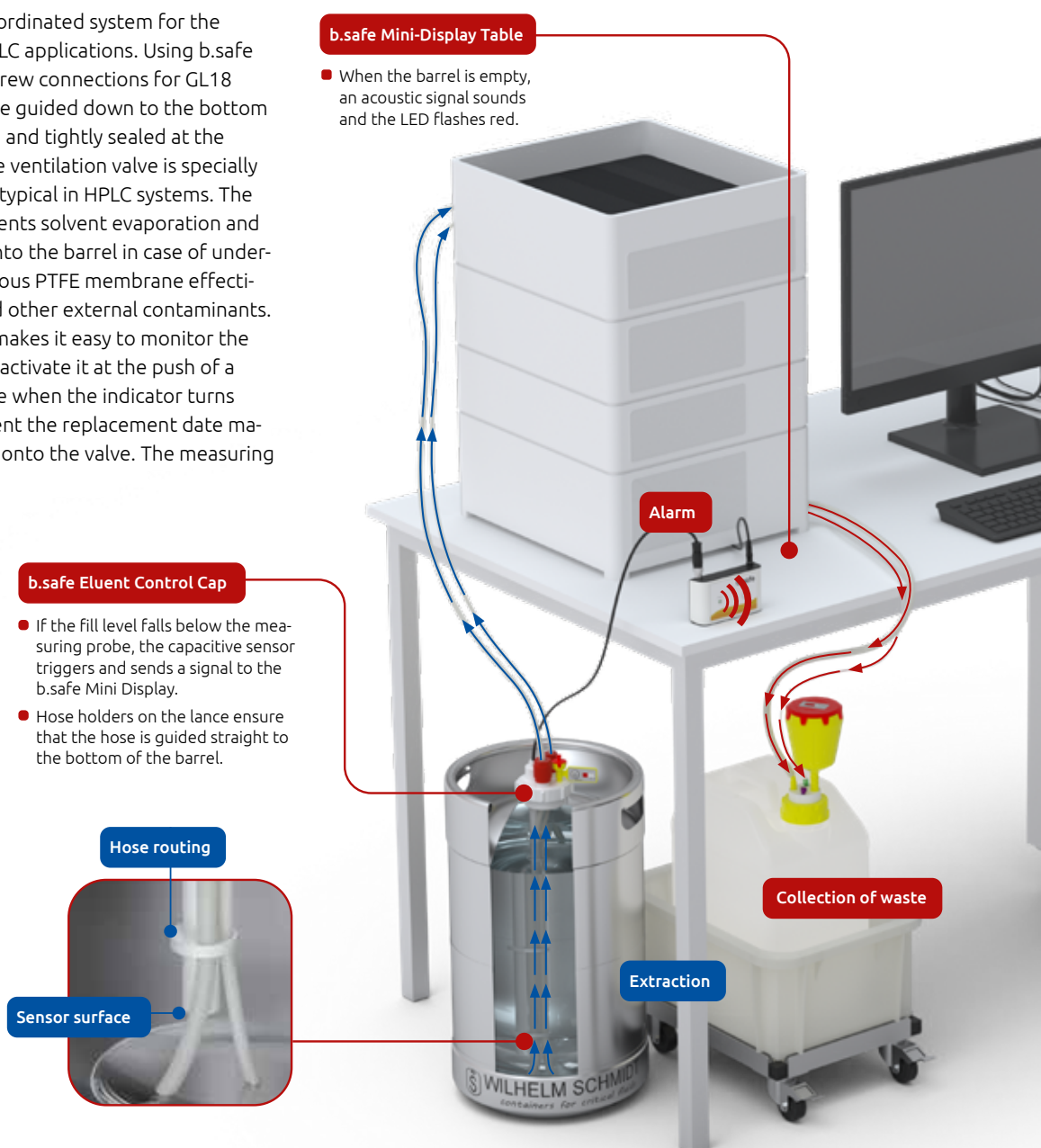
G2"

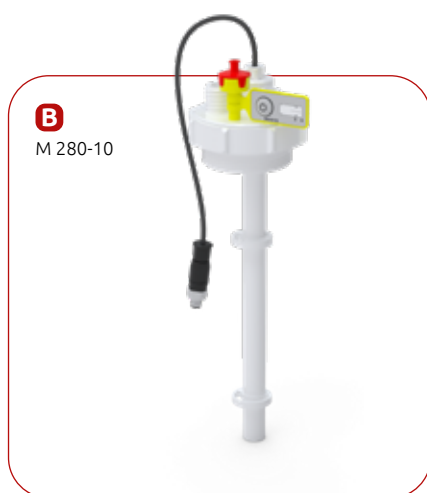
Material: **PTFE, PP-GF** | Temperature resistance: **-50 °C to +80 °C** | Chemical resistance: **++ very good**

Screw cap made of PP-GF or PTFE screw-on piece for various barrel threads, with a freely rotating PTFE insert. Integrated is a measuring lance equipped with a capacitive sensor, fully encapsulated in PTFE, with a permanently attached cable (approx. 0.5 m) for connection to a b.safe Mini-Display Table R 659-01 (not included). Each cap is equipped with a ventilation valve featuring a replacement indicator. Depending on the version, PFA fittings for capillaries with an outer diameter of 3.2 mm (UNF 1/4" 28G thread), PFA blind fittings for sealing unused ports on the HPLC cap, or GL18 and GL14 ports for laboratory screw connections are included. These ensure secure and tight fixation of various tubing diameters. Configuration and scope of delivery as per the specification table.

Application: A perfectly coordinated system for the withdrawal of eluents in HPLC applications. Using b.safe PFA fittings or laboratory screw connections for GL18 and GL14 ports, tubes can be guided down to the bottom of the barrel, securely fixed, and tightly sealed at the connection point. The b.safe ventilation valve is specially designed for the flow rates typical in HPLC systems. The integrated check valve prevents solvent evaporation and allows ambient air to flow into the barrel in case of under-pressure. The upstream porous PTFE membrane effectively blocks dirt particles and other external contaminants. The replacement indicator makes it easy to monitor the 6-month service life: simply activate it at the push of a button and replace the valve when the indicator turns completely red—or document the replacement date manually and clip the indicator onto the valve. The measuring

lance of the HPLC Eluent Control Cap monitors the liquid level in laboratory barrels and prevents it from falling below a residual volume of approximately 10%. As soon as the liquid level drops below the lance, the capacitive sensor triggers a signal, which is displayed on the connected b.safe Mini-Display R 659-01 (not included), enabling timely container replacement.





B
M 280-10



C
M 280-20



A
M 270-05

+ Additional accessories
b.safe Exhaust Filter
» from page 11



	For thread	For barrels with capacity	Number of connectors	Number of Fittings	Number of Blind Fittings	Lance length	Length of suction hose in barrel in mm	Cat.No.:	*recomm. price Euro
A	GL45	5 l	3x UNF 1/4"	3x Ø 3,2 mm (yellow)	2	256	ca. 320	M 270-05	297,32
B	G2"	10 l	1x GL18	0	(milky white, UNF 1/4")	230	ca. 265	M 280-10	368,11
C	G2"	20 l	1x GL14	0	0	375	ca. 430	M 280-20	289,58



G2"
for 20 liter barrel



G2"
for 10 liter barrel



GL45
for 5 liter barrel

Screw cap made of PP-GF for **GL45 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 on the HPLC Cap and an Air Valve with service life indicator. Version and scope of delivery as per below chart.

Application: 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 is especially adapted to the flow rate in HPLC. 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 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 Phase Caps are a practical and flexible closure option in laboratory supplies, which ensures efficient operation and optimal sealing.

	Number of capillary connectors	Number of Fittings	Number of Blind Fittings	Cat.No.:	*recomm. price
A	1	1 x Ø 3,2 mm (yellow)	0	M 145-01	65,41
B	2	2 x Ø 3,2 mm (yellow)	1 (milky white)	M 145-02	73,80
C	3	3 x Ø 3,2 mm (yellow)	2 (milky white)	M 145-03	76,61
D	4	4 x Ø 3,2 mm (yellow)	3 (milky white)	M 145-04	107,01
E	6	6 x Ø 3,2 mm (yellow)	5 (milky white)	M 145-05	107,66



b.safe Air Valve

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

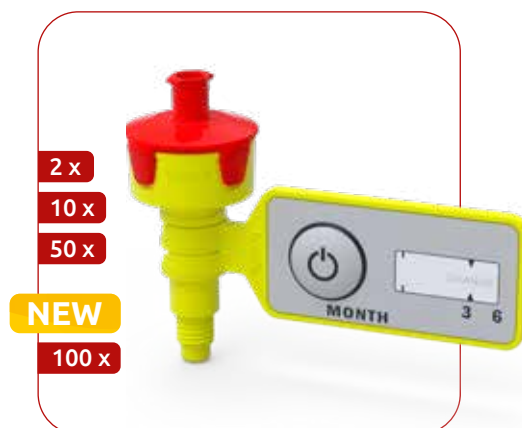
Valve body made of PP with connection (thread UNF 1/4" 28G) suitable for b.safe Caps. Lid with aeration opening and Luerlock connector, integrated non-return valve with upstream porous PTFE membrane (1 µm), including clip-on service life indicator.

Application: For extraction of eluents. The b.safe Air Valve is especially adapted to the flow rate in HPLC. 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 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.

Stock up now for your **annual needs** with our **new 100-pack** and help reduce packaging waste!

	Packing Unit	Service life	Cat.No.:	*recomm. price
A	2 pcs.	6 months	M 505-01	38,33
B	10 pcs.	6 months	M 505-02	169,23
C	50 pcs.	6 months	M 505-05	731,20
D	100 pcs.	6 months	M 505-10	1.079,20



b.safe Laboratory Flasks GL45

Material: **borosilicate glass** | Chemical resistance: **+++ universal**

Laboratory flask made of Borosilicate glass including screw cap and spout made of PP. Packing unit: 1 piece.

	Volume ml	Thread	Cat.No.:	*recomm. price
A	500	GL45	R 100-43	20,32
B	1000	GL45	R 100-45	24,43





b.safe Starter Sets Premium

Material: **PTFE, PP-GF** | Temperature resistance: **-20 °C to +110 °C** | Chemical resistance: **+++ universal**

HPLC-Sets for solvent supply of one HPLC containing for laboratory flasks GL 45 / 1000 ml made of borosilicate glass, suitable b.safe Capas GL 45, Air Valves with service life indicator, Fittings for capillaries with OD 1,6 mm / 2.2 mm / 3.2 mm and Blind Fittings to close unused connections. Version and scope of delivery of each set 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 is especially adapted to the flow rate in HPLC. 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 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.

Contains everything you need for **safe and economical** dispensing!
Includes **4 laboratory** bottles and additional **fittings!**

Price advantage of
up to

30%



R 9940-10





b.safe HPLC-All-In-One Box

» from page 12

Would you also like to cover disposal at the same time?
Discover our All-in-One Box!



	Description	Scope of delivery	Items for reordering	Cat.No.:	*recomm. price
A	Starter Set Premium A	3x b.safe Cap GL45 with 1 capillary connection 1x b.safe Cap GL45 with 2 capillary connections 4x b.safe Air Valve with service life indicator 5x b.safe Fitting for tubing O. D. 3,2 mm (yellow) 10x b.safe Fitting for tubing O. D. 1,6 mm (green) 10x b.safe Fitting for tubing O. D. 2,2 mm (purple) 1x b.safe Blindfitting (milky-white) 4x b-safe Laboratory Flask GL45 1000 ml	M 145-01 M 145-02 M 505-01 (PU 2 pcs.) M 501-18 (PU 10 pcs.) M 501-06 (PU 10 pcs.) M 501-11 (PU 10 pcs.) M 501-01 (PU 10 pcs.) R 100-45	R 9940-10	370,51
B	Starter Set Premium B	4x b.safe Cap GL45 with 2 capillary connections 4x b-safe Air Valve with service life indicator 8x b-safe Fittings for tubing O. D. 3,2 mm (yellow) 10x b-safe Fittings for tubing O. D. 1,6 mm (green) 10x b-safe Fittings for tubing O. D. 2,2 mm (purple) 4x b-safe Blindfitting (milky-white) 4x b-safe Laboratory Flask GL45 1000 ml	M 145-02 M 505-01 (PU 2 pcs.) M 501-18 (PU 10 pcs.) M 501-06 (PU 10 pcs.) M 501-11 (PU 10 pcs.) M 501-01 (PU 10 pcs.) R 100-45	R 9940-20	386,51
C	Starter Set Premium C	4x b-safe Cap GL45 with 2 capillary connections 4x b-safe Air Valve with service life indicator 12x b-safe Fittings for tubing O. D. 3,2 mm (yellow) 10x b-safe Fittings for tubing O. D. 1,6 mm (green) 10x b-safe Fittings for tubing O. D. 2,2 mm (purple) 8x b-safe Blindfitting (milky-white) 4x b-safe Laboratory Flask GL45 1000 ml	M 145-03 M 505-01 (PU 2 pcs.) M 501-18 (PU 10 pcs.) M 501-06 (PU 10 pcs.) M 501-11 (PU 10 pcs.) M 501-01 (PU 10 pcs.) R 100-45	R 9940-30	410,51

b.safe Waste Caps S55 S60

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

Screw cap made of PP-GF available among others for canister threads S55 or S6, with free movable insert made of PTFE. With PFA Fittings for capillaries with O. D. 1,6/2,2/3,2 mm (thread UNF 1/4"), Blind Fittings made of PFA to close unused connections, 1 hose connector for tubing I. D. 5,5-8,0 mm (thread NPT 1/8") and 1 connector to screw in a b.safe Exhaust Filter (thread GL14, not included).

Applications: Safe disposal of solvents without leakage of harmful solvent vapours. With b.safe Fittings made of PFA, tubes can be easily inserted in the waste container, the conical seal cone clamps the tubing and seals the

connection safely. Large amounts of liquids can be collected by connecting tubing with OD 6,4-9 mm. Solvent vapours from the escaping air during filling are restrained by the Exhaust Filter containing activated carbon. 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.

Find **more sizes** at
bsafe.de



	Number of capillary connectors	Number of Fittings	Number of Blind Fittings	Hose Connectors	Cat.No.:	*recomm. price	Cat.No.:	*recomm. price
A	3	3 x Ø 1,6 mm (green) 3 x Ø 2,2 mm (purple) 3 x Ø 3,2 mm (yellow)	2 (milky-white UNF 1/4")	0	M 355-01	98,17	M 360-01	107,02
B	2	2 x Ø 1,6 mm (green) 2 x Ø 2,2 mm (purple) 2 x Ø 3,2 mm (yellow)	1 (milky-white UNF 1/4")	1 x Ø 5,5 – 8 mm	M 355-03	98,08	M 360-03	103,10
C	4	4 x Ø 1,6 mm (green) 4 x Ø 2,2 mm (purple) 4 x Ø 3,2 mm (yellow)	4 (milky-white UNF 1/4") 4 (milky-white UNF 1/8")	4 x Ø 5,5 – 8 mm	M 355-40	110,42	M 360-40	111,99

b.safe Canister



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

Canister with UN-Y approval and with Thread S55 (DIN51) and Thread S60/61 (DIN60/61) or the collection of liquid waste.

	Thread	Volume l	Neck	Dimensions (L x W x H mm)	Material	Cat.No.:	*recomm. price
A	S60	5	straight	190 x 150 x 255	PE-HD	R 230-05	18,82
A	S60	10	straight	220 x 190 x 340	PE-HD	R 230-10	16,56
A	S60	20	straight	300 x 230 x 405	PE-HD	R 230-20	19,92
B	S60	5	straight	195 x 165 x 230	PE-HD-EX	R 231-05	26,93
B	S60	10	straight	220 x 190 x 340	PE-HD-EX	R 231-10	32,50
B	S60	30	straight	360 x 235 x 450	PE-HD-EX	R 231-30	85,17
C	S60	10	inclined	295 x 200 x 255	PE-HD-EX	R 236-10	44,86
C	S60	20	inclined	295 x 200 x 495	PE-HD-EX	R 236-20	61,07
D	S55	5	straight	190 x 150 x 235	PE-HD	R 225-05	17,52
D	S55	10	straight	230 x 195 x 235	PE-HD	R 225-10	17,53

A
R 230-05
R 230-10
R 230-20



B
R 231-10
R 231-30



C
R 236-10
R 236-20



All canisters with this marking are conductive.

D
R 225-05
R 225-10



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.

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.

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

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



A
M 506-01

B
M 506-02

C
M 506-03

* Recommended prices valid until 31.12.2026



b.safe HPLC All-In-One Box

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

Complete set for equipping one HPLC system. Containing b.safe Caps GL45 for four laboratory flasks for solvent extraction as well as a b.safe Waste Cape with Exhaust Filter and a Canister for safe collection of solvent waste. The scope of delivery of the b.safe Caps includes PFA fittings for capillary O. D. 3,2 mm, Blind Fitting in PFA to close unused connections and Air Valves with service life indicator. For the collection of waste, the set includes a PE-canister S55 with 5-litre capacity, a suitable Waste Cap S55 and one Exhaust Filter L. The scope of delivery of the Waste Cap includes PFA Fittings for capillaries with OD 1,6/2,2/3,2 mm, Blind Fittings to close unused connections, tubing connectors

for tubing I. D. 5,5-8 mm. Version and scope of delivery as per below chart. Consumables (Air Valves, Exhaust Filter) for a 12 months service life included.

Applications: Perfect set for the initial equipment of your HPLC system. Using b.safe Caps, eluents are directly extracted from laboratory flasks. The Air Valve prevents evaporation of solvents and only allows as much air to flow into the bottle as is necessary to equalize the pressure. Waste tubing are connected directly to the canister with the b.safe Waste Cap. The Exhaust Filter with activated carbon filling reliably restrains solvent vapours from the air escaping during filling.

All you need for your
HPLC **in one set!**

Consumables includes
for one year!

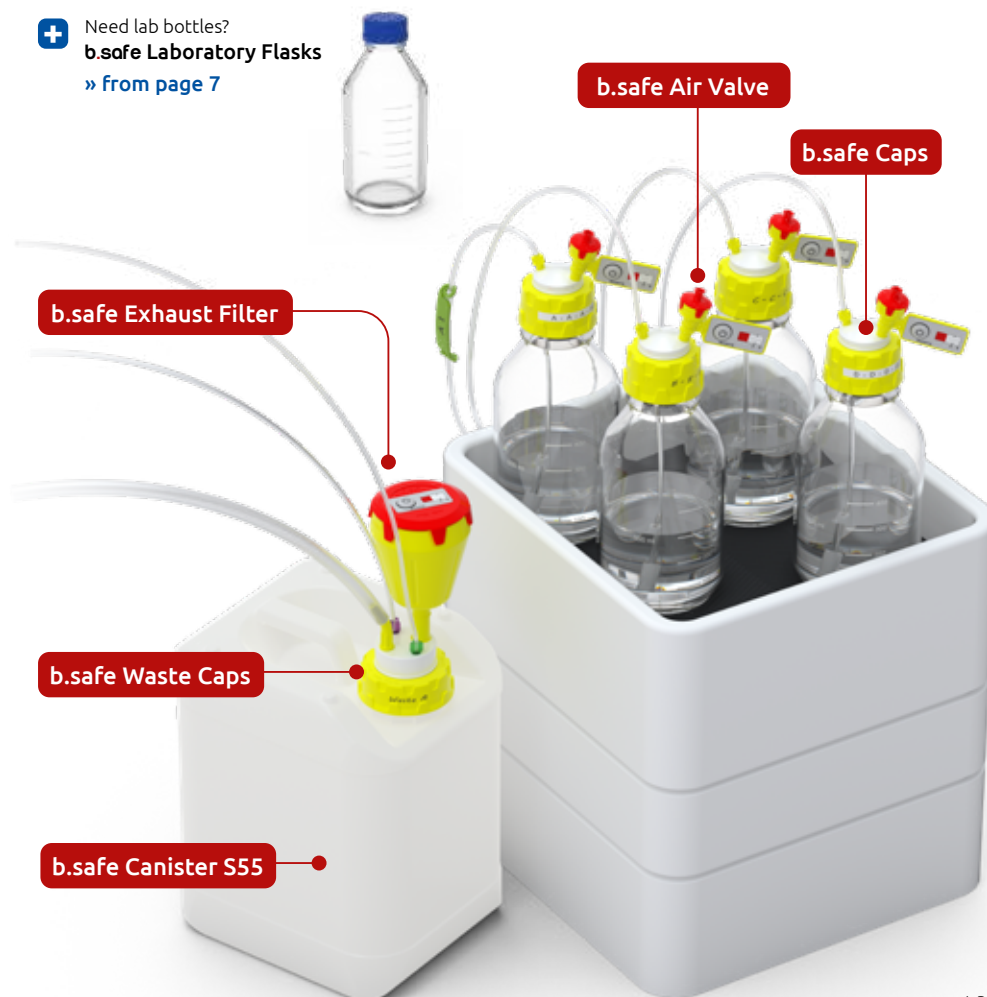
Price advantage of
up to
30%



b.safe HPLC-All-In-One Box
Scope of delivery

Items for reordering	Cat.No.:	*recomm. price
3x b.safe Cap GL45 with 1x capillary connection incl. 1x Fitting for Tubing O. D. 3,2 mm (yellow) 1x Air Valve with service life indicator	M 145-01	R 9900-10
1x b.safe Cap GL45 with 2 x capillary connection incl. 2x Fitting for Tubing O. D. 3,2 mm (yellow) 1x Blind Fitting, 1x Air Valve with service life indicator	M 145-02	
4x b.safe Air Valve with service life indicator 6 months	M 505-01 (PU 2 pcs.) M 355-40	
1x b.safe Waste Cap S55 with 4x capillary connection 4x hose connector 1x connector for exhaust filter incl. 4x Fitting for Tubing O. D. 1,6 mm (green) 4x Fitting for Tubing O. D. 2,2 mm (purple) 4x Fitting for Tubing O. D. 3,2 (yellow) 4x Blind Fitting for capillary connection 4x hose connector for tubing I. D. 5,5-8 mm 4x Blind Fitting hose connection		
1x b.safe Hose Connector for tubing I. D. 9-10,5 mm	M 503-16	
1x b.safe Exhaust Filter L , service life 12 months	M 506-03 (PU 2 pcs.)	
1x b.safe Canister S55 , PE, capacity 5 litres	R 225-05	

+ Need lab bottles?
b.safe Laboratory Flasks
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The new BOHLENDER Training Center

In the heart of the charming Tauber Valley

Grünsfeld is situated between the historical cities of Wertheim, famed for its glassblowing tradition, and Rothenburg ob der Tauber, which stands as one of Germany's most picturesque medieval locations. Situated right on the Romantic Road and surrounded by rolling hills and picturesque vineyards, our region offers a paradise for wine enthusiasts, nature lovers, and those seeking unique experiences.

The **BOHLENDER** headquarters, featuring our state-of-the-art Training Center, is located precisely here in Grünsfeld. On approximately 400 square meters, our entire range of brands - **b.safe, b.safe SYSTEM, BOLA, and SICCO** - comes to life. Products are not just seen, but can be touched, tested, and understood through practical, hands-on experience.

Major benefits lie in the small details

A visit to the Bohlender Training Center offers you the chance to experience the function and advantages of our products firsthand. Our practical training courses cover all the essentials, whether you are an end user, a laboratory specialist dealer, or an installer. Installers, in particular, will gain the essential expertise for the professional fitting of the b.safe Systems.

Simultaneously, the Training Center provides ample space for networking, enabling participants to discover new ideas, develop solutions, and forge valuable partnerships.

A special highlight from our company's history: Our first machine - a Leinen lathe dating back to 1959. It was purchased by the founding couple, the Bohlenders, and operated in the early years by Gertrud Bohlender, wife of the company founder Hermann Bohlender. Alongside it is a red 1967 Fiat 500, which is structurally identical to the very first company car used by our - at the time - very small enterprise.

Experience technology firsthand here

We warmly invite you to visit our headquarters, take a personal tour of our extensive production facility, and explore the Training Center for inspiration.



For **further information** or to **arrange an appointment**, please contact your personal Bohlender representative or send an email to: info@bohlender.de



b.safe

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