EN

b.safe



Installation Manual
b.safe Funnels

b.safe Funnel 130
b.safe Funnel 180
b.safe Funnel 250

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Conformity to current regulation

b.safe Funnels comply with the Technical Regulation **CENELEC 50404** (Code of practice for the avoidance of hazards due to static electricity) **and TRGS 727** (formerly TRBS 2153).

You can look at and obtain the **TRGS 727 on www.baua.de.** How to get the **CLC / TR50404** for your location, e-mail to **info@cencenelec.eu.**

Dear Laboratory Experts,

With our **b.safe** Funnels, you have chosen a reliable and high-quality branded product. All **b.safe** products are produced from high-performance plastics and with the highest quality standard (as per ISO 9001) in South Germany.

b.safe Funnels serve for a safe and comfortable waste disposal of liquid laboratory waste, either if you require conductive, antistatic or isolating material. For your own safety, we therefore ask you to read and follow the installation manual carefully.

Furthermore, please consider the appropriate use of the Funnels for your operation purpose as well as locally valid safety regulations!

In case of any further questions or need of support, please contact our **b.safe** experts.

For more information, visit bsafe.de

General Safety Information



Please **check the material resistance** of your b.safe Funnel regarding the chemicals used. On bsafe.de, you will find all necessary information.



In case of **overpressure** in the container, **harmful vapours can escape** from the lid or the ball valve of the b.safe Funnel. Thus, please use it only in **well-ventilated areas** (e.g. under extractor hoods, laboratory hoods or on safety cabinets).



During operation, you have to wear **appropriate personal protective equipment** as per the current valid safety regulations. Check before each operation if the b.safe Funnel is correctly mounted as per this installation manual.

Take care of appropriate function without having damages, contamination or blockage in the funnel.



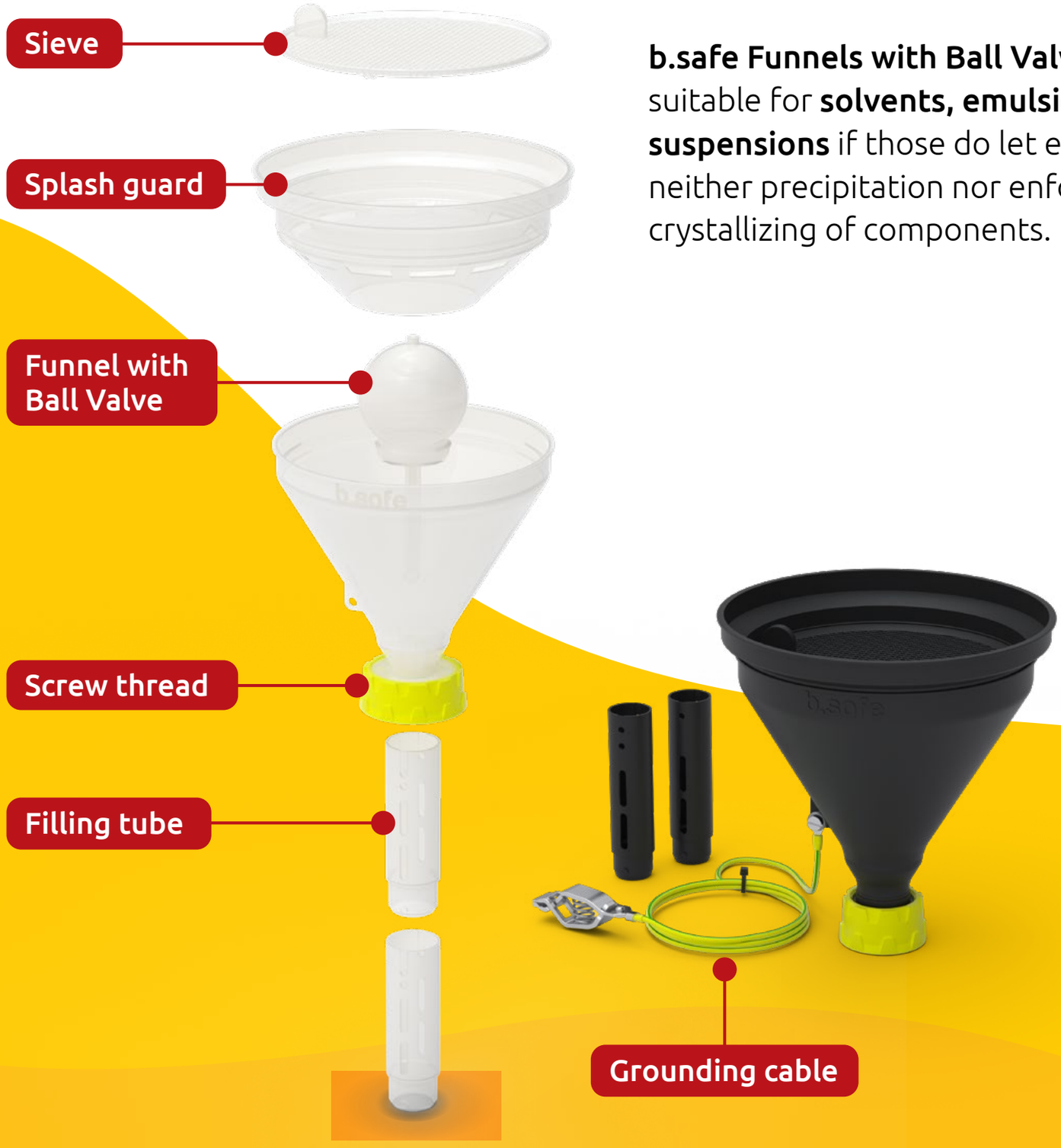
Never fill the b.safe Funnel with **liquids hotter than 60 °C,** as this would endanger its thermic resistance.



Grounding of static dissipative b.safe Funnels: To prevent danger of ignition, b.safe Funnels are available in static dissipative version. Possibly arising static charging through friction or flow of liquids over surfaces are conducted through a professionally installed grounding cable.

Please note that the installation of appropriate grounding connections is only to be made by qualified personnel!

b.safe Funnel 180 with Ball Valve



b.safe Funnels with Ball Valve are suitable for **solvents, emulsions and suspensions** if those do let expect neither precipitation nor enforced crystallizing of components.

Versions

Size	Thread size	*Article No.* static dissipative	*Article No.* not static dissipative
Funnel 180	GL45 with filling tube	R 800-05	R 801-30
Funnel 180	S55 with filling tube	R 830-05	R 831-30
Funnel 180	S60/61 with filling tube	R 840-05	R 841-30

Available in numerous other thread sizes. Please contact us.

Spare parts for Funnels

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Installation and use instructions →

Installation and use

b.safe Funnel 180 with Ball Valve



Installation

1. Check all parts of your funnel on intactness. The Ball Valve must be smooth running.
2. If your funnel includes filling tubes: Align the bores with the plastic nibs and stick them together (A). Do not use too much force to avoid damage of the parts. The plastic nibs have to snap noticeable. The connection is durable and cannot be loosened without destruction!
3. Choose an appropriate waste container (volume, chemical resistance, discharge capacity) with suitable threaded neck. If necessary, cut the filling tube (B) (e.g. with a frame saw) to perfectly adapt it on the height of the container. Deburr the cut surfaces.
4. Put the sieve (C) into the funnel so that it tightly snaps in its groove.

5. Put the mounted funnel on the thread of the waste container and screw it hand-tight with the screw cap (D). Avoid that the funnel turns as well. Do not use any tools to tighten!
6. Static dissipative b.safe Funnels (E): Please consult trained personnel for the connection on the grounding point and observe locally valid regulations!

Use

1. Wear appropriate protective equipment (hand and eye protection) and pay attention to good ventilation.
2. Check if the waste container still has sufficient residual volume.
3. Ensure that the b.safe Funnel is professionally mounted and well-functioning.
4. Slowly pour the laboratory waste into the b.safe Funnel! High flow speed benefit electrostatic charging, overfill or spillover of the liquid.
5. Make sure that the complete laboratory waste runs through the b.safe Funnel and does not stop in it (e.g. due to a glued ball valve).
6. Remove probably caught objects (e.g. magnetic stirring bars).

b.safe Funnel 130/180 with Hinged Lid



b.safe Funnels with Hinged Lid are suitable for **solvents, emulsions and suspensions** as well as for liquids with higher solids content (precipitation, slurry etc.).

Versions

Size	Thread size	*Article No.* static dissipative	*Article No.* not static dissipative
Funnel 130	GL45 without filling tube	R 800-20	R 801-40
Funnel 130	S55	R 830-20	R 831-40
Funnel 130	S60/61	R 840-20	R 841-40
Funnel 180	GL45 without filling tube	R 800-10	-
Funnel 180	S55 without filling tube	R 830-10	-
Funnel 180	S60/61 without filling tube	R 840-10	-
Funnel 250	S60/61 without filling tube	-	R 841-50

Available in numerous other thread sizes. Please contact us.

Spare parts for Funnels

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Installation and use instructions

Installation and use

b.safe Funnels with Hinged Lid



Installation

1. Check all parts of your b.safe Funnel with Hinged Lid on intactness and regular function.
2. If your funnel includes filling tubes: Align the bores with the plastic nibs and stick them together (A). Do not use too much force to avoid damage of the parts. The plastic nibs have to snap noticeable. The connection is durable and cannot be loosened without destruction!
3. Choose an appropriate waste container (volume, chemical resistance, discharge capacity) with suitable threaded neck. If necessary, cut the filling tube (B) (e.g. with a frame saw) to perfectly adapt it on the height of the container. Deburr the cut surfaces.
4. Open the hinged lid and put the sieve (C) into the funnel so that it tightly snaps in its groove.

5. Put the funnel with the screw cap (D) hand tightly on the thread of the waste container. Avoid that the funnel turns as well. The cover hinge (E) should be facing away from you so that the lid might get in your way during filling. Do not use any tools to tighten!
6. Static dissipative b.safe Funnels (F): Please consult trained personnel for the connection on the grounding point and observe locally valid regulations!

Use

1. Wear appropriate protective equipment (hand and eye protection) and pay attention to good ventilation.
2. Check if the waste container still has sufficient residual volume.
3. Ensure that the b.safe Funnel is professionally mounted and well-functioning.
4. Open the funnel lid on the grip and slowly pour the laboratory waste into the b.safe Funnel! High flow speed benefit electrostatic charging, overfill or spillover of the liquid.
5. Make sure that the complete laboratory waste runs through the b.safe Funnel and does not stop in it.
6. Remove probably caught objects (e.g. magnetic stirring bars).
7. Close the funnel lid smoothly.

b.safe Funnels with Level Indicator



b.safe Funnels with Level Indicator are suitable for **solvents, emulsions and suspensions.** However, they should only contain slight solid content in order to avoid sticking of movable components of the funnel.

Versions

Size	Thread size	*Article No.* static dissipative	*Article No.* not static dissipative
Funnel 130 vertical	S60/61	R 840-25	-
Funnel 130 inclined	S60/61	R 840-26	-
Funnel 180 vertical	S60/61	R 840-15	-
Funnel 180 inclined with hinged lid	S60/61	R 840-16	-

Spare parts for Funnels

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Installation and use instructions →

Installation and use

b.safe Funnels with Level Indicator



Installation

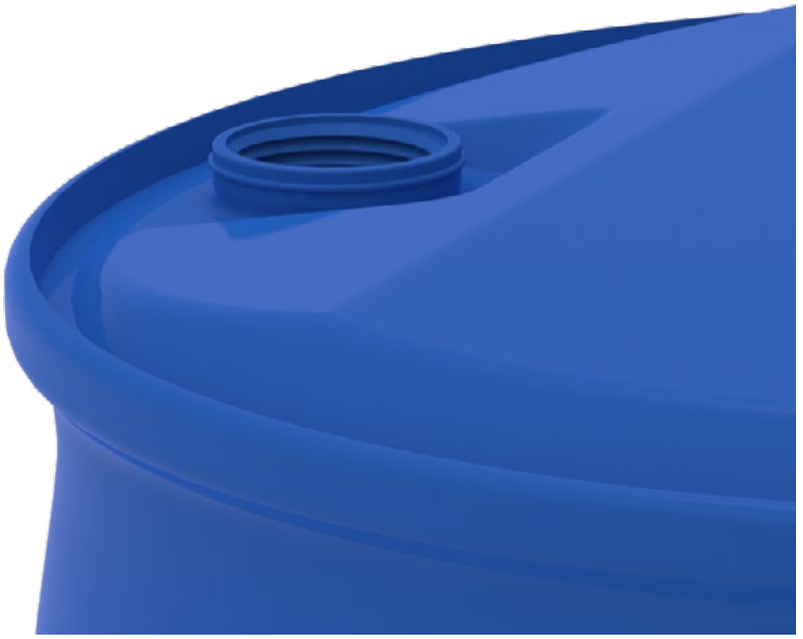
1. Check all parts of your funnel on intactness and regular function.
2. Put the sieve into the funnel so that it tightly snaps in its groove. The sight glass of the Level Indicator (A) sits in the centre opening.
3. Choose an appropriate waste container (volume, chemical resistance, discharge capacity) with suitable threaded neck.

4. Lead the swimmer lance (B) into the container and screw the screw cap (C) hand tight. Avoid that the funnel turns as well. If your funnel has a hinged lid, the cover hinge (D) should be facing away from you so that the lid might not get in your way during filling. Do not use any tools to tighten!
5. Please consult trained personnel for the connection of the grounding cable (E) on the grounding point and observe locally valid regulations!

Use

1. Wear appropriate protective equipment (hand and eye protection) and pay attention to good ventilation.
2. Ensure that the Funnel is professionally mounted and well-functioning.
3. Check if the waste container still has sufficient residual volume
4. Slowly pour the laboratory waste into the Funnel! High flow speed might cause benefit electrostatic charging, overfill or spillover of the liquid. Watch the Level Indicator, which raises with increasing level.
5. Make sure that the complete laboratory waste runs through the b.safe Funnel and does not stop in it.
6. Stop filling if the red pin of the Level Indicator does not move any longer and exceeds the upper edge of the sieve. Exchange the waste container.
7. Remove probably caught objects (e.g. magnetic stirring bars).
8. If necessary, close the funnel lid smoothly.

Notes to Barrel Connections



Screw b.safe Funnels with barrel connection into the thread of your barrel. Normally, a depth stop exists in the barrel. Turn the thread into it up to this point.

Attention: b.safe Funnels on barrels are insulated through the internal coating of the barrel. Thus, there is no conductive connection between funnel and barrel. Therefore, **even the b.safe Funnel as well as the barrel have to be grounded separately!**

Warranty for b.safe Products

Warranty covers unchanged products in delivery state respectively intended use. It expires in case of any change of our products. Should technical changes be necessary, contact us. We make custom manufactures.

Service and Maintenance

Please note: Adhesive chemical residues on the b.safe Funnel can endanger your health. Thus, please also wear **necessary personal protective equipment for service and maintenance and take care of good ventilation.**

1. In case of flammable solvent residues on the b.safe Funnel, let those vaporize before the actual cleaning process. Care for good ventilation (such as laboratory hood).

2. Wipe contamination on the surfaces with a moistened cloth (to avoid static charging).

3. From time to time, you should clean your b.safe Funnel properly. Demount it from the waste container and close the container carefully. Remove the b.safe sieve from the funnel and clean all reachable places with a soft brush in running warm water. If necessary, add some detergent.

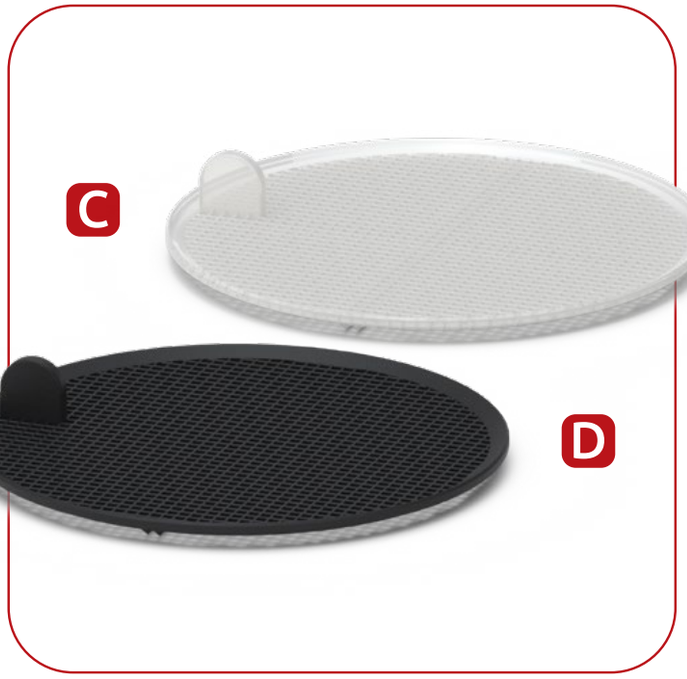
4. Probably take care of regular disposal of collected rinsing liquids.

5. Static dissipative products are subject to age-related changes in materials. Let them examine from qualified personnel on the preservation of the discharge capacity every year. To maintain its protective function, the earth resistance can amount max. 10^6 Ohm at a test voltage of 500 V.

Spare Parts

Designation		Material	Funnel 130	Funnel 180	Funnel 250	Article number
Filling tube for Funnel 130 Outside-Ø 28 mm, usable length 97 mm, Packing unit: 5 pieces	A	PE	•			R 430-05
	B	PE-EX	•			R 430-01
Filling tube for Funnel 180/250 Outside-Ø 36 mm, usable length 97 mm, Packing unit: 5 pieces	A	PE		•	•	R 432-05
	B	PE-EX		•		R 432-01
Sieve for Funnel 130 Packing unit: 1 piece	C	PE	•			R 405-05
	D	PE-EX	•			R 405-01
Sieve for Funnel 180 Packing unit: 1 piece	C	PE		•		R 400-05
	D	PE-EX		•		R 400-01
Splash guard for Funnel 180 Only suitable for Funnels without a hinged lid. Packing unit: 1 piece	E	PE		•		R 410-05
	F	PE-EX		•		R 410-01
Elbow adapter	G	PE-EX				R 560-01


A
B


C
D


E
F


G

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