

SafetyCaps: Safe Solvent Supply for any HPLC / UHPLC System

Organic solvents are toxic, flammable and the vapours can escape through the smallest openings.

The S.C.A.T. system guarantees a safe and fixed connection of all hoses and blocks harmful vapours for your safety without compromising the mixing ratio of the mobile phase.

Ventilation valves ensure safe pressure equalization without under- or overpressure in the solvent cylinders.

The V2.0 venting valve is the safest valve on the market due to its design and components. It can be used with a flow rate of up to 400 ml/min.

It is equipped with a PTFE filter so that no particles enter the mobile phase bottle when the valve is opened.

In addition, it is possible to inject a gas or connect a tube to a desiccator using the female luer lock outlet.

The high-performance plastics used offer maximum chemical resistance.



PFA Fittings:

Fixed capillary connection, improved design. Excellent chemical resistance. Flammability class V-0 (UL94).

PPS Cap:

Autoclavable / sterilizable up to 200°C.

Ergonomic Design:

Easy installation, more stable and easy to change.

PTFE filter:

for clean solvents.

Valve membrane:

Blocks solvent vapors, opens at underpressure.

PTFE Body (Medical Grade):

High resistance, 360° freely rotatable. Provides easy container change without distortion of tubing.

Integrated FKM seal

SafetyCap for external diameter tubing $\leq 1/8''$ or 3.2 mm

GL45 SafetyCap



307019



307519



307219



399909

1/4" - 28 fittings for ext diam tube 1.6 ; 2.3 ; 3.2 mm	Capillary connections*				
	1 SafetyCap I	2 SafetyCap II	3 SafetyCap III	4 SafetyCap IV	6 SafetyCap VI
SafetyCaps with air valve	307019	307909	307910	307410	307520
SafetyCaps with valve and air valve	307119	307919	307920	307419	307519
SafetyCaps with valve and air valve	---	307219 (1 valve)	307319 (2 valves)	---	---
SafetyCaps - space saving with air valve	399019	399909	---	---	---

*= Number of fittings to connect capillaries.

Each cap is supplied with a air valve and 1/4" - 28 fittings for 1.6 mm, 2.3 mm and 3.2 mm external diameter tubing.



Werner: The clean flushing process

Installation of 4 Safety Caps (GL45 or GL28) or less using closed caps.
Easy installation: capillaries are reliably fixed and the wide opening of the bottle GL80 allows easy passage of tubing and solvent strainers or filters.

Description	4 sorties GL45	4 sorties GL38
Werner adaptater GL80	106660	106696
Description	P/N	
Bottle 1L GL80 (clear glass)	XF097A	



Accessories for SafetyCaps

Air valves for SafetyCaps

Due to its design and components, the V2.0 ventilation valve is the safest on the market and can be used with a flow rate of up to 400 ml/min.

It is equipped with a PTFE filter so that no particles enter the mobile phase bottle when the valve is opened.

In addition, it is possible to inject a gas or to connect a tube to a desiccator using the female luer lock outlet.

The valve has a 1/4"-28 thread which fits to the majority of stoppers on the market.



	1 unit	8 units	10 units	50 units
P/N	317010	397008	397010	397050



PFA fittings (Nut and ferrule integrated)

Ø OD tubing	Thread size	PFA (5 u)		White PTFE
1.6 mm = 1/16"	1/4" - 28	107061	Green	107041 (10 u)
		107048	Transparent	---
2.3 mm	1/4" - 28	107059	Purple	107042 (10 u)
		107063	Blue	107043 (10 u)
3.2 mm = 1/8"	1/4" - 28	107060	Black	---
		107066	Transparent	---
4.76 mm = 3/16"	5/4" - 24	---	---	107045 (1 u)
6.35 mm = 1/4"	1/8"NPT	---	---	107044 (1 u)



Plugs

Thread	Replacement	Material	P/N - 10 u	P/N - 5 u	P/N - u
1/4" - 28	Standard fitting	PFA	160501	160502	---
5/4" - 24	Fitting 3/16" = 4.76 mm	PTFE	160503	160515	---
1/8" NPT	Fitting 1/4" = 6.35 mm or Leak	PTFE	---	---	160506
GL14	Exhaust filter	PTFE	---	---	107620





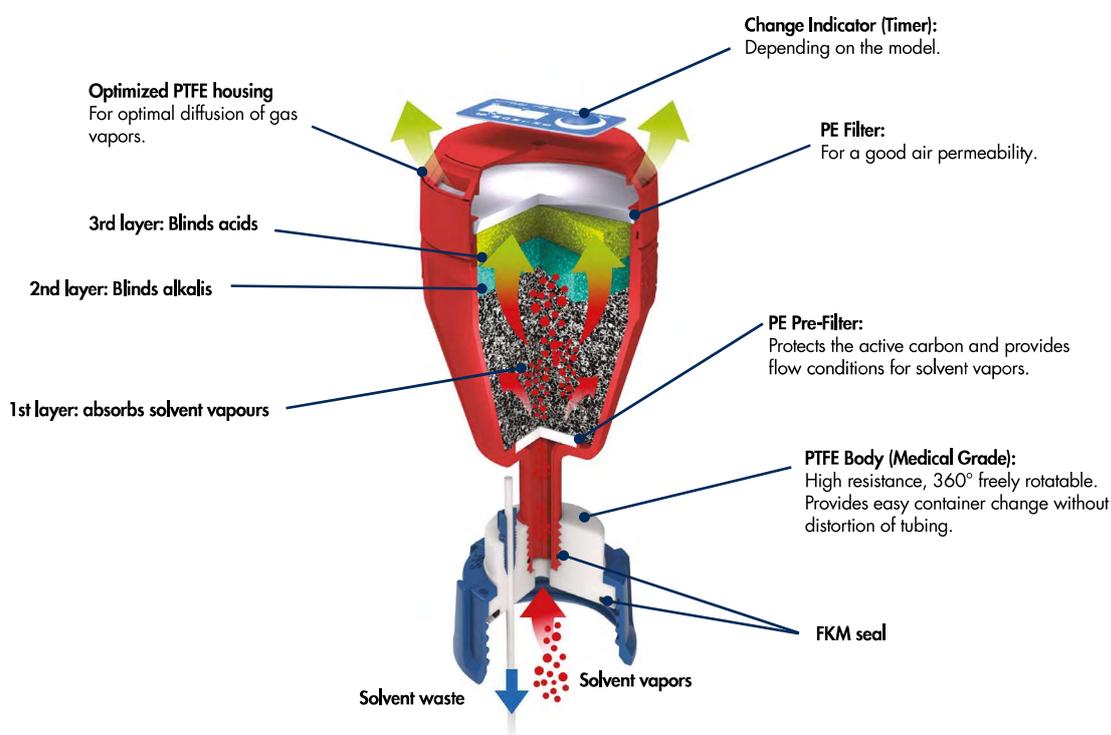
Safety Waste Caps to collect HPLC, UHPLC waste safely

The canister breathes without releasing harmful solvent vapors thanks to the use of an exhaust air filter.

The exhaust filters contain special particles with a very large specific surface area of 1,500 m²/g in order to absorb a maximum of vapor (99% of volatile substances).

The plugs are supplied without exhaust air filters (see following pages).

- Fire protection according to UL 94 (safety standard for the flammability of plastics)
- Autoclavable and sterilizable up to 200°C
- High-quality, FDA-compliant materials used



307500

		3 capillary connections	2 capillary connections + 1 leak	4 capillary connections + 1 leak	3 capillary connections + 3 leaks
GL40	Standard	307108	307109	---	---
GL45	Standard	307912	307923	308921	---
S60/61	Standard	307918	307925	307931	307500
	Electrostatic conductive	307916	307944	---	---

SafetyWaste Caps are supplied with fittings but without the exhaust filter.

1/4" - 28 fittings for 3.2 mm and 2.3 mm capillaries, leak fitting for 5.0 to 11.5 mm internal diameter.



307912



307923



307944



307931



Safety Waste Caps V2.0 with Level Control (mechanical or electronic)

			3 capillary connections	2 capillary connections et 1 leak
S60/61	Mechanical Level control	Standard	307961	307964
		Electrostatic conductive	308961	308964
	Mechanical Level control	Standard	308401	308403
		Electrostatic conductive	308402	308404

1/4" - 28 fittings for 3.2 mm and 2.3 mm capillaries, leakage fitting for 5.0 to 11.5 mm flexible tubes internal diameter.



308401

308404

Safety Waste Caps

		3 capillary connections	2 capillary connections + 1 leak	4 capillary connections	4 capillary connections + 1 leak	5 capillary connections
S55	Standard	107917	107924	---	---	---
	Electrostatic conductive	107936	107943	---	---	---
S51	Standard	107930	107922	---	---	---
	Electrostatic conductive	107935	107942	---	---	---
S65	Standard	---	---	---	108047	108046
	Electrostatic conductive	---	---	---	108055	---
S70	Standard	107913	107926	---	---	---
	Electrostatic conductive	107915	107945	---	---	---
GLS80	Standard	---	---	107029	107033	---
S90	Standard	---	---	107927	107947	---
	Electrostatic conductive	---	---	107928	107949	---
S95	Standard	---	---	107256	107257	---
B53	Standard	---	---	---	107037	---
B63	Standard	107051	107050	---	---	---
B83	Standard	---	---	107036	107034	---
	Electrostatic conductive	---	---	107052	107053	---

1/4" - 28 fittings for 3.2 mm and 2.3 mm capillaries, leak fitting for 5.0 to 11.5 mm flexible tubes internal diameter.



307964

107917

107924

107928

Safety Waste Caps with level indicator

			3 capillary connections	2 capillary connections + 1 leak	4 capillary connections	4 capillary connections + 1 leak
S55	Mechanical Level control	Standard	107960	107963	---	---
		Electrostatic conductive	108030	---	---	---
	Electronic Level Control	Standard	108200	108201	---	---
		Electrostatic conductive	---	---	---	---
S51	Mechanical Level control	Standard	---	107242	---	---
	Electronic Level Control	Standard	---	107241	---	---
S65	Mechanical Level control	Standard	---	---	---	107969
S70	Mechanical Level control	Standard	107962	107965	---	---
	Electronic Level Control	Standard	---	108407	---	---
S90	Mechanical Level control	Standard	---	---	107966	107967
		Electrostatic conductive	---	---	108031	---
	Electronic Level Control	Standard	---	---	---	108231
S95	Mechanical Level control	Standard	---	---	---	107258
	Electronic Level Control	Standard	---	---	---	107259
B63	Mechanical Level control	Standard	---	107247	---	---
	Electronic Level Control	Standard	---	107248	---	---
B83	Mechanical Level control	Standard	---	---	---	108156
	Electronic Level Control	Standard	---	---	---	108205

1/4" - 28 fittings for 3.2 mm and 2.3 mm capillaries, leak fitting for 5.0 to 11.5 mm flexible tubes internal diameter.



107960

108030

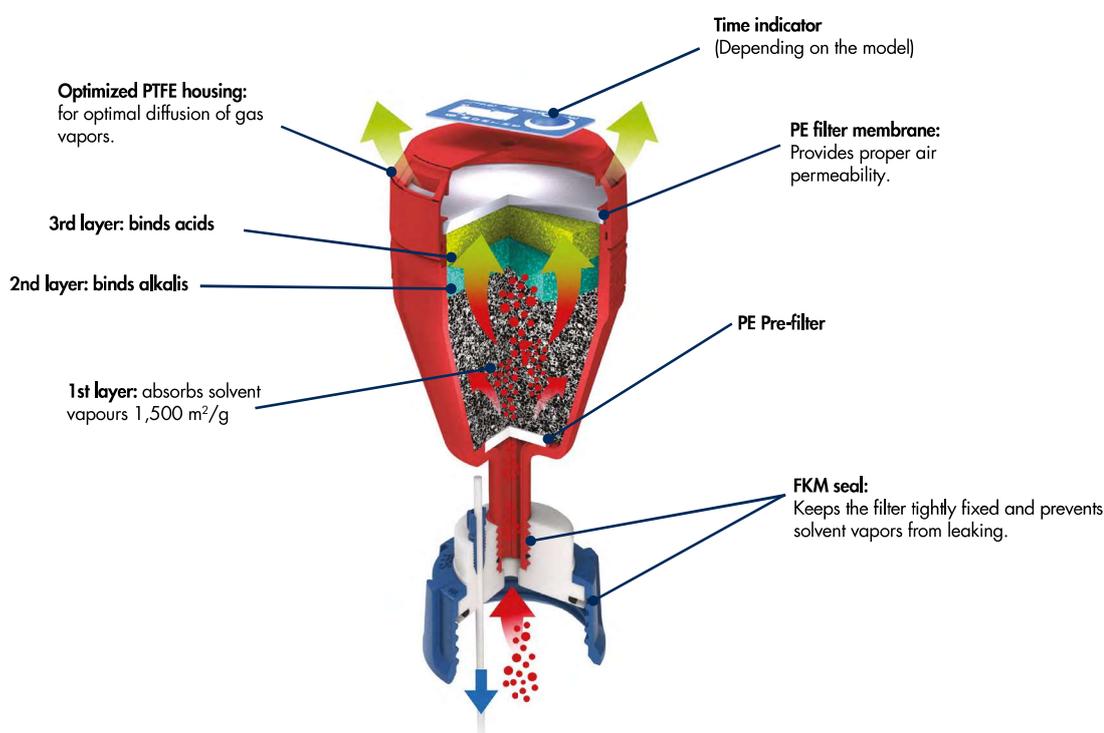
108201



Exhaust filters V3.0

- SCAT exhaust filters block off harmful vapors and ensure for safe pressure equalization in the waste containers of HPLC systems.
- Our core active carbon has been optimized for taking up organic solvent vapors and has been tested by regulatory ASTM/DIN/ISO methods
- Optimization of the plastic housing allows better diffusion of solvent vapors
- 3 types of layers to absorb organic, acid and basic solvent vapors
- Selection of activated carbon with strict physical and chemical properties (hardness, adsorption capacity and particle size control) is more effective (adsorption capacity of 1,500 m²/g)

Exhaust air filters are available with a time indicator or a label to warn the date of replacement



Filter type	Life time
S	3 months
M	6 months
L	12 months

	V3.0 with time indicator		V3.0 with label	
S	410534 (1 u)	490335 (4 u)	---	---
M	410535 (1 u)	490336 (2 u)	407982 (1 u)	490914 (2 u)
L	407986 (1 u)	490986 (2 u)	---	---

The exhaust filter has been optimized for the capture of eluent vapors used in HPLC. The lifetime of the filter depends, among other things, on the composition of the waste collected, the temperature and flow rate.

These factors can vary considerably from customer to customer.

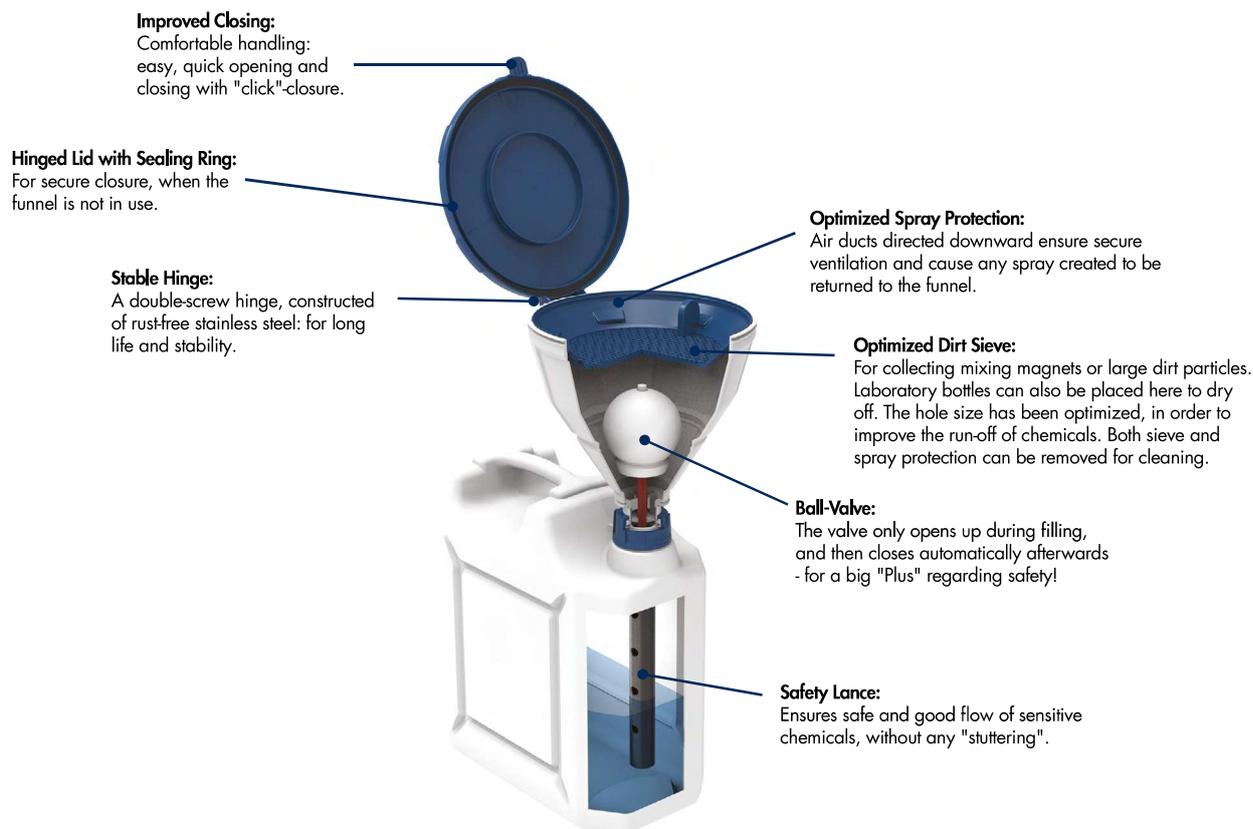
To ensure that you are always safe, we recommend you replace your filters every 3 months with the S version, every 6 months with the M version and every year with the L version.



Arnold Safety Funnel: ball valve and hinged lid

This funnel allows you to safely empty your used solvents into a canister: the funnel is fixed to the canister and remains stable during transfer; the ball system opens when depositing liquids and then closes automatically. In addition, it is equipped with a PE-HD grid to filter out residues and to collect magnetic bars or other solid materials. The funnel can be equipped with a "lance" for a better diffusion of the liquid in the canister.

As for the lid, it allows the canister + funnel to be hermetically sealed.



Thread of container	Lance 220 mm	P/N	P/N Electrically conductive
GL45	x	317642	317622
GL45	-	---	317638
S50	x	317649	317629
S51	x	317644	317624
B53	x	317632	---
S55	x	317645	317625
S60/61	x	317641	317621
S65	x	317646	317626
S70/71	x	317648	317628
B83	x	317647	317627
S90	x	317643	317623
S95	x	---	317635
R2" BSP/G2" + 2" TriSure	-	---	317630





Models without ball valve, for highly viscous liquids

Thread of container	P/N Electrically conductive
GL45	317633
S60/61	317634

Description	Color	P/N
Dirt sieve	Blue	317640
	Black	317620

SafetyWaste set: Canister + Arnold funnel

Description	10 L	20 L
Kit: Canister S55 + Safety funnel ball Arnold (white)	307450	---
Electrostatic conductive kit: Canister 60/61 with floater	307320	307321



TECHNICAL TIP

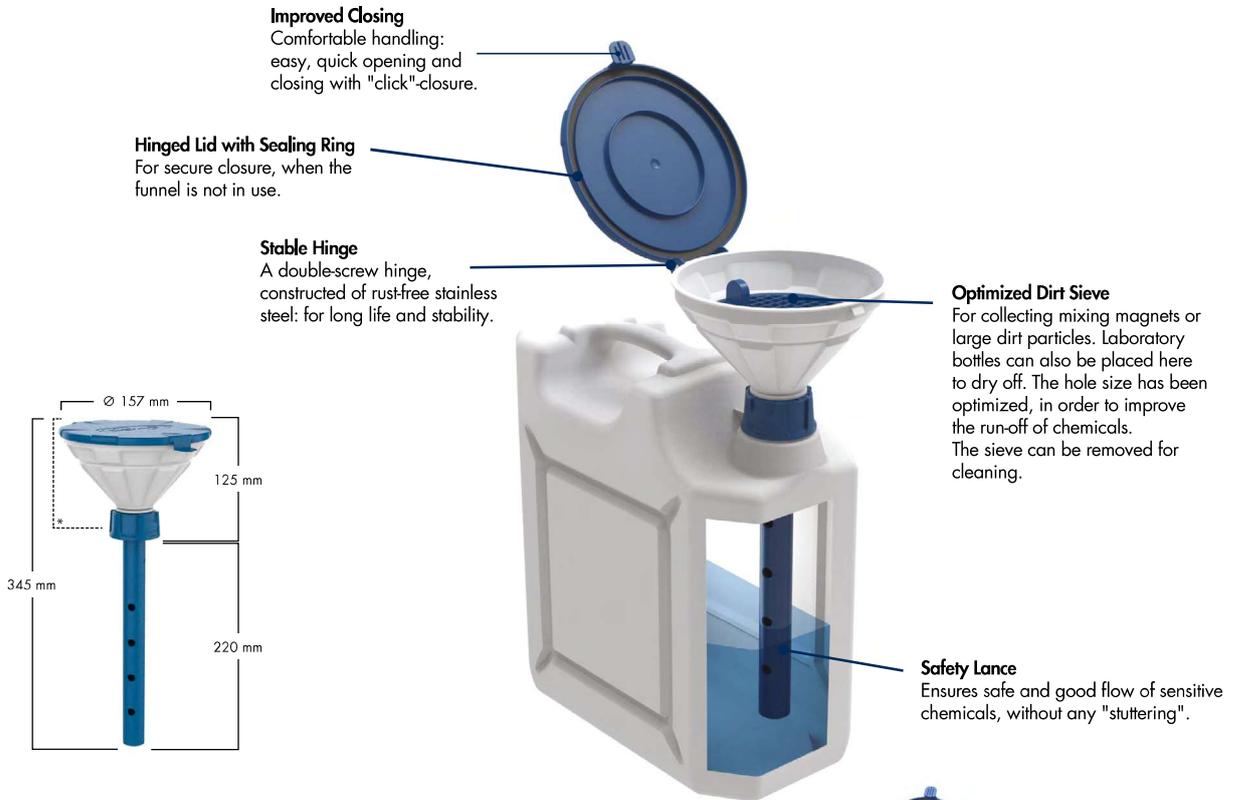
Electrostatic conductive systems:

All components made of PE-HD EL can be earthed and are suitable for voltage equalisation according to TRGS 727. TRGS 727.

Electroconductive PE-HD EL has an earth resistance discharge of $< 109 \Omega$, according to DIN EN 61340-5-1 and is suitable for zones 0, 1 and 2 in accordance with the Ordinance on Hazardous Substances (GefStoffV), EN 1127-1, DIN EN 60079-10-1 and DIN EN 60079-10-2. It is resistant to chemicals as defined in SEFA 3 and SEFA 8.



Safety funnel Marco with hinged lid



Thread of canister	Lance 220 mm	Integrated level control	Kit standard	Electrically conductive
GL45	-	-	318952	318962
GL45	x	-	318992	---
S50	-	-	318955	---
S50	x	-	318995	318985
S51	-	-	318953	---
S51	x	-	318993	318983
S55	-	-	318951	318961
S55	x	-	318991	318981
S60/61	-	-	318950	318960
S60/61	x	-	318990	318980
S60/61	-	x 150	---	317637
S60/61	-	x 190	---	317651
S65	-	-	318954	318964
S65	x	-	318994	318984

	Blue	Black electrically conductive
Dirt sieve	318999	318989
Replacement dirt sieve with small holes 3 x 3 mm	118999	---
Replacement lid	318998	318988

SafetyWaste set: Canister + Marco funnel

	2.5 L	5.0 L	10 L
Standard version	307316	307317	307318
Electrically conductive version with collecting tray	---	---	307315

