

Safety Caps

working safely with
dangerous liquids



S·C·A·T
europe

The Safety Specialist.

Principles for Quality and Safety



The safety of our customers and the quality of our products rank first in our company's directives. Therefore we practice continuous improvement, controlled by our quality management system. That way, every customer benefits from the latest developments and innovations for safety and environment protection.

Developing a new product demands accurate team work from each participant, going from the challenge, over material selection and design, to the first applied tests.

SCAT Products are practical, perfect in handling and easy to use. This philosophy is represented by each SCAT Safety Product.

Personal safety of the users and welfare of the customers are the principles we focus on.

In this regard, SCAT Safety Products always ensure a good feeling.

Trust in approved quality - with products made by SCAT Europe GmbH.



The Safety Specialist.

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Dangers and hazards in many laboratories



Vapours and gases of dangerous liquids can cause damage to your health and to your environment. Bottles and containers with unsafe contents always have to be sealed reliably to avoid health hazards and environment pollution.

Many directives are already regulated by law - in addition, you should always take care of your health and integrity yourself.

Troubleshooting by SCAT Safety Caps

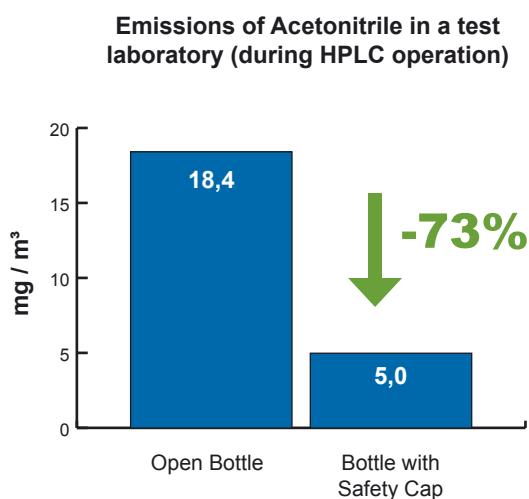
-  **No escape of hazardous vapours**
Integrated air valve and exhaust filters keep your containers sealed safely.
-  **No pollution**
Containers always remain shut, even during extraction or filling of liquids.
-  **No shift of tubing**
Tubes remain fixed - no air intake into sensitive equipment like chromatography systems
-  **Easy container exchange**
Safety Caps are freely turnable without twisting tubes.
-  **No air intake**
No interruption of chromatography processes.



Health - Environment - Economy

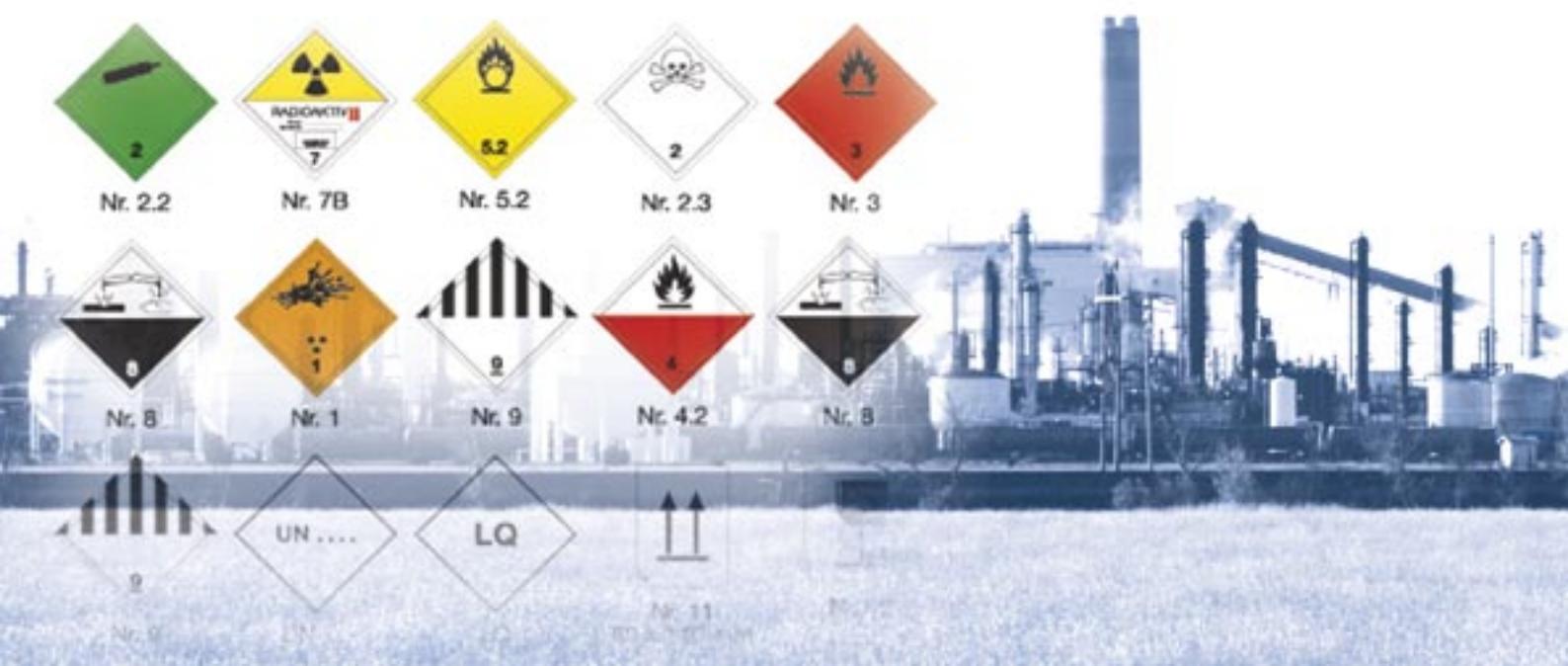
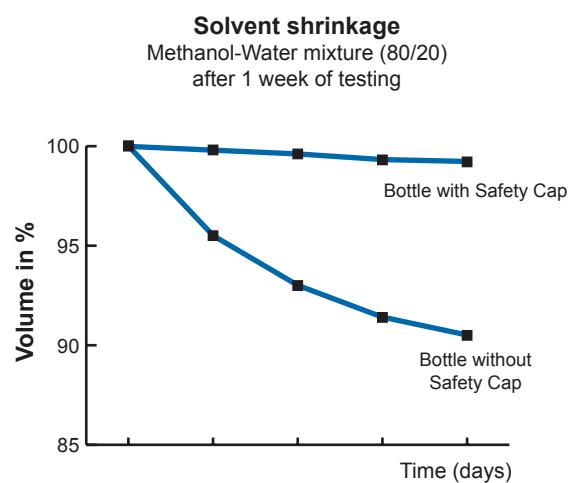
Reduce pollution

Ecological and sanitary damage can be reduced intensely by SCAT Safety Caps. Officially accredited testing laboratories verify a reduction of toxic concentrations in the air amounting to 73%.



Avoid shrinkage

Spend less money on chemicals - SCAT Safety Caps avoid decrease of expensive solvents which otherwise evaporate into extraction hoods or into the environmental air.





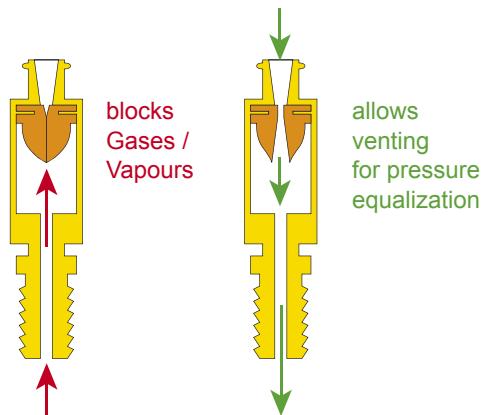
Safe and comfortable

Safety Caps rotate freely without twisting tubes. Even when using multiple connectors, you can easily exchange your containers and reservoirs without interruptions.

Tubes remain
fixed [

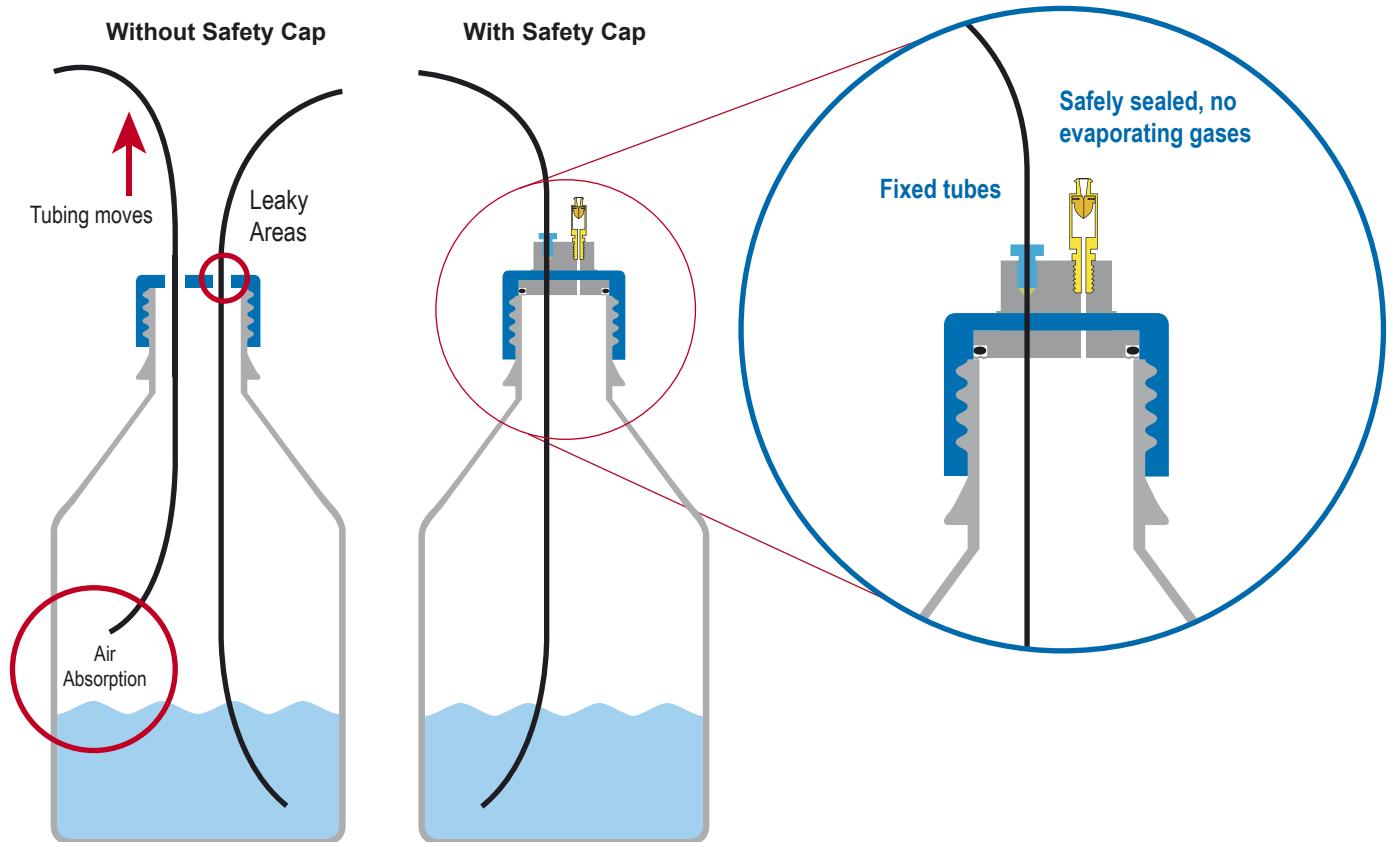


Air Valve Function



Safety Cap can
rotate

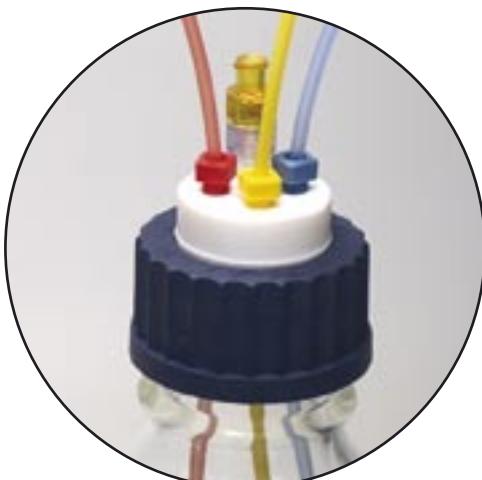
The Difference in Liquid Handling





Safety Caps

for safe fluid supply. The **air valve** avoids evaporation of hazardous gases.



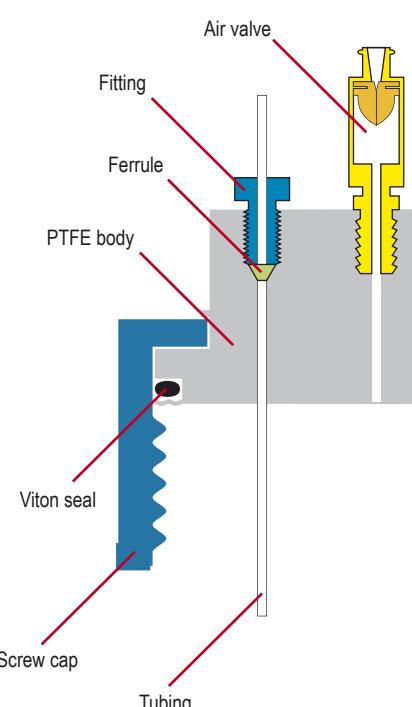
Safety Caps - Safe Fluid Supply



Safe venting for pressure equalization during the solvent supply by integrated air valve. Protection against dangerous solvent vapours.

Available connectors for tubing:

- 1.6mm (1/16") OD
- 2.3mm OD
- 3.2mm (1/8") OD



Part No.	Description
107019	Safety Cap I, GL 45 1 port for 3.2mm (1/8") OD tubing
107909	Safety Cap II, GL 45 2 ports for 3.2mm (1/8") OD tubing
107910	Safety Cap III, GL 45 3 ports for 3.2mm (1/8") OD tubing
108032	Safety Cap I, GL 45 for 3/16" tubing 1 port for 4.7mm (3/16") OD tubing



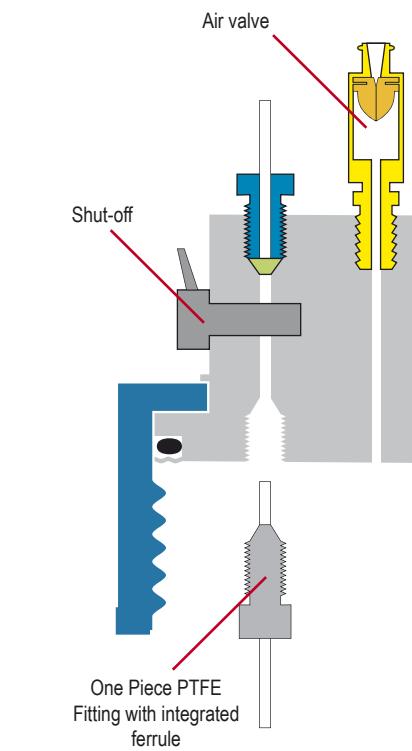
Adapters for
other thread sizes
available !

Safety Caps - with Shut-Off



Remove or exchange your reservoirs easily by using the **shut-off** to stop the liquid flow. Especially recommended for HPLC use. Available connectors for tubing:

- 1.6mm (1/16") OD
- 2.3mm OD
- 3.2mm (1/8") OD



Part No.	Description
107119	Safety Cap I with Shut-Off, GL 45 1 port for 3.2mm (1/8") OD tubing
107919	Safety Cap II with Shut-Off, GL 45 2 ports for 3.2mm (1/8") OD tubing
107920	Safety Cap III with Shut-Off, GL 45 3 ports for 3.2mm (1/8") OD tubing



Adapters for
other thread sizes
available !



Safety Caps (2 in 1)

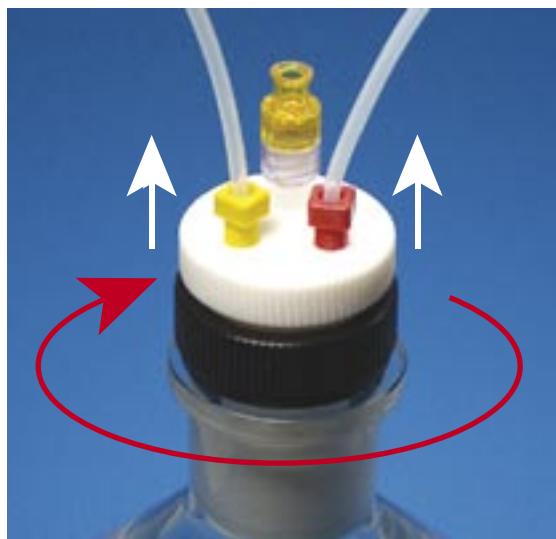


Ports with shut-off **plus** 1 standard port each. **Connectors for tubing:**

- 1.6mm (1/16") OD
- 2.3mm OD
- 3.2mm (1/8") OD

Part No. Description

107219	Safety Cap II (2 in 1), GL 45 1 port (standard), 1 port with shut-off
107319	Safety Cap III (2 in 1), GL 45 1 port (standard), 2 ports with shut-off



Safety Cap for NS 29/32mm bottles

For ground neck bottles with NS 29/32mm diameter. With counter nut for easy disconnecting and removal even after long time of use. **Ports for tubing with 1.6mm (1/16"), 2.3mm and 3.2mm (1/8") OD.**

Part No. Description

107607	Safety Cap for NS 29/32 bottles 2 ports for tubing with 3.2mm (1/8") OD
--------	---



This cap is also available without tubing ports (see page 39) !

Adapter: NS 29/32mm to GL45



Exchange your solvent reservoirs easily by using this adapter on GL45 bottles, together with Safety Cap for Ground Neck bottles (see above).



Part No. Description

107508	Adapter NS29/32mm to GL45 Core material: PTFE. Cap: PP.
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Adapter: GL45 to NS 29/32mm



For use with GL45 Safety Caps on bottles with a NS 29/32mm ground neck. **With counter nut** for easy disconnecting and removal even after long time of use.

Part No.	Description	Unit
107509	Adapter GL45 to NS 29/32mm Core material: PTFE. Counter nut: PP.	1 Stk.

Safety Cap for GL80 Wide Neck Bottles



Safe solvent supply, now available for wide neck bottles with GL80 thread.

Part No.	Description
107030	Safety Cap for GL80 wide neck bottles 1 port for 1.6mm (1/16"), 2.3mm and 3.2mm (1/8") tubing
107031	Safety Cap for GL80 wide neck bottles 2 ports for 1.6mm (1/16"), 2.3mm and 3.2mm (1/8") tubing
107032	Safety Cap for GL80 wide neck bottles 3 ports for 1.6mm (1/16"), 2.3mm and 3.2mm (1/8") tubing



Also available with
multiple ports for
other tubing sizes !

Air Valve for Safety Caps



Appropriate for all Safety Caps. Recommended service life: **6 months**.

Part No.	Description	Unit
107010	Air Valve for Safety Caps	1 Stk.



Find more useful
accessories and supplies
from page 35 to 49 !



Safety Waste Caps

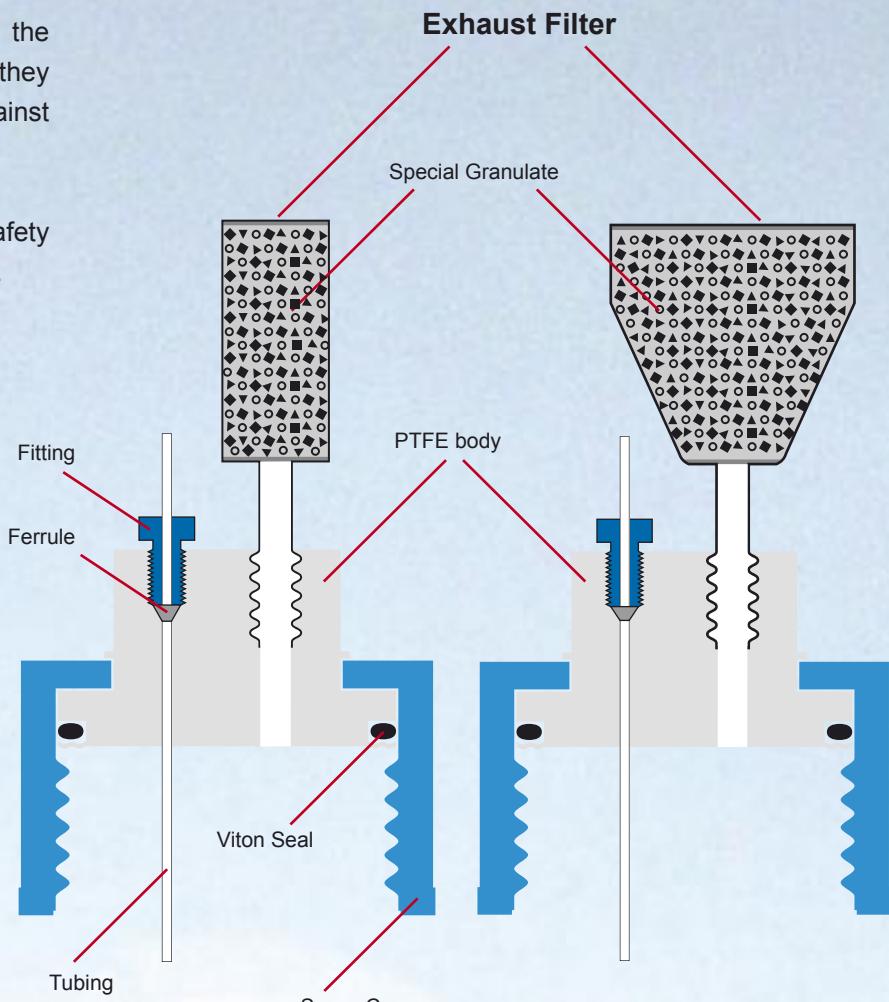
for safe disposal of liquid waste. Find appropriate Safety Waste Caps for most common thread sizes on the following pages. The **exhaust filters** can be used with any SCAT Safety Waste Cap.



Safety Waste Caps

Only pure PTFE and PE is used for the construction of Safety Waste Caps, so they have a high chemical resistance against aggressive organic solvents.

The exhaust filters are suitable for all Safety Waste Caps and can be exchanged easily.



The exhaust filter absorbs **99%** of all volatile gases and avoids unfiltered escape of hazardous vapours.

The filter is charged with a special granulate which has a specific filtering surface of **1.200 m²/g** - the optimum filter media for any type of solvent vapours. The different sizes of exhaust filters have the following real filtering surface:

Size S:	28.800 m²
Size M:	57.600 m²
Size L:	120.000 m²

Safety Waste Caps

Each Safety Waste Cap has got a port for the exhaust filter. Fittings and ferrules for tubing with **2.3mm and 3.2mm (1/8") OD** are included in delivery.

Adapters and ports for other tubing sizes are also available (see page 43).



Thread GL 45	107912	107923			
Tubing Ports	3x 2.3/3.2mm OD	2x 2.3/3.2mm OD			
Leak Ports	---	1x 6-8mm ID			
Antistatic Port	---	---			

Leak port for bigger tubing sizes



Thread S 50 (for space saving can)	108023	108025	108024	108026
			without picture	without picture
Tubing Ports	3x 2.3/3.2mm OD	2x 2.3/3.2mm OD	3x 2.3/3.2mm OD	2x 2.3/3.2mm OD
Leak Ports	---	1x 6-8mm ID	---	1x 4-6mm ID

Antistatic Port



Thread S 51	107930	107922	107935	107942
				
Tubing Ports	3x 2.3/3.2mm OD	2x 2.3/3.2mm OD	3x 2.3/3.2mm OD	2x 2.3/3.2mm OD
Leak Ports	---	1x 6-8mm ID	---	1x 6-8mm ID

Antistatic Port



Please order your
Exhaust Filters separately
(see page 20) !

Safety Waste Caps

Safe disposal of liquid waste

Safety Waste Caps

Each Safety Waste Cap has got a port for the exhaust filter. Fittings and ferrules for tubing with **2.3mm and 3.2mm (1/8") OD** are included in delivery.

Adapters and ports for other tubing sizes are also available (see page 43).



Thread B 53	107037		 Ports and connectors for other tubing sizes are also available !
Tubing Ports	4x 2.3/3.2mm OD		
Leak Ports	1x 6-8mm ID		
Antistatic Port	---		



Thread S 55	107917	107924	107936	107943
Tubing Ports	3x 2.3/3.2mm OD	2x 2.3/3.2mm OD	3x 2.3/3.2mm OD	2x 2.3/3.2mm OD
Leak Ports	---	1x 6-8mm ID	---	1x 6-8mm ID
Antistatic Ports	---	---	Yes	Yes



Thread S 60 / 61	107918	107925	107916	107944
Tubing Ports	3x 2.3/3.2mm OD	2x 2.3/3.2mm OD	3x 2.3/3.2mm OD	2x 2.3/3.2mm OD
Leak Ports	---	1x 6-8mm ID	---	1x 6-8mm ID
Antistatic Port	---	---	Yes	Yes



Please order your
Exhaust Filters separately
(see page 20) !

Also available for other container sizes. Please ask your local distributor !

Safety Waste Caps

Each Safety Waste Cap has got a port for the exhaust filter. Fittings and ferrules for tubing with **2.3mm and 3.2mm (1/8") OD** are included in delivery.

Adapters and ports for other tubing sizes are also available (see page 43).



Thread 63 (Flat Container)	107038		
Tubing Ports	1x 2.3/3.2mm OD		
Leak Ports	3x 6-8mm ID		
Antistatic Port	---		



Thread S 65	108046	108047	
Tubing Ports	5x 2.3/3.2mm OD	4x 2.3/3.2mm OD	
Leak Ports	---	1x 6-8mm ID	
Antistatic Port	---	---	



Thread S 70 / 71	107913	107926	107915	107945
Tubing Ports	3x 2.3/3.2mm OD	2x 2.3/3.2mm OD	3x 2.3/3.2mm OD	2x 2.3/3.2mm OD
Leak Ports	---	1x 6-8mm ID	---	1x 6-8mm ID
Antistatic Port	---	---	Yes	Yes



Please order your
Exhaust Filters separately
(see page 20) !

Safety Waste Caps

Safe disposal of liquid waste

Safety Waste Caps

Each Safety Waste Cap has got a port for the exhaust filter. Fittings and ferrules for tubing with **2.3mm and 3.2mm (1/8") OD** are included in delivery.

Adapters and ports for other tubing sizes are also available (see page 43).



Thread GL 80	107033	107029	Ports and connectors for other tubing sizes are also available !
Tubing Ports	4x 2.3/3.2mm OD	4x 2.3/3.2mm OD	
Leak Ports	1x 6-8mm ID	---	
Antistatic Port	---	---	



Thread B 83	107034	107036	Ports and connectors for other tubing sizes are also available !
Tubing Ports	4x 2.3/3.2mm OD	4x 2.3/3.2mm OD	
Leak Ports	1x 6-8mm ID	---	
Antistatic Port	---	---	



Thread S 90	107927	107947	107928	107946
Tubing Ports	4x 2.3/3.2mm OD	4x 2.3/3.2mm OD	3x 2.3/3.2mm OD	2x 2.3/3.2mm OD
Leak Ports	---	1x 6-8mm ID	---	1x 6-8mm ID
Antistatic Ports	---	---	Yes	Yes



Please order your
Exhaust Filters separately
(see page 20) !

Also available for other
container sizes. Please
ask your local distributor !

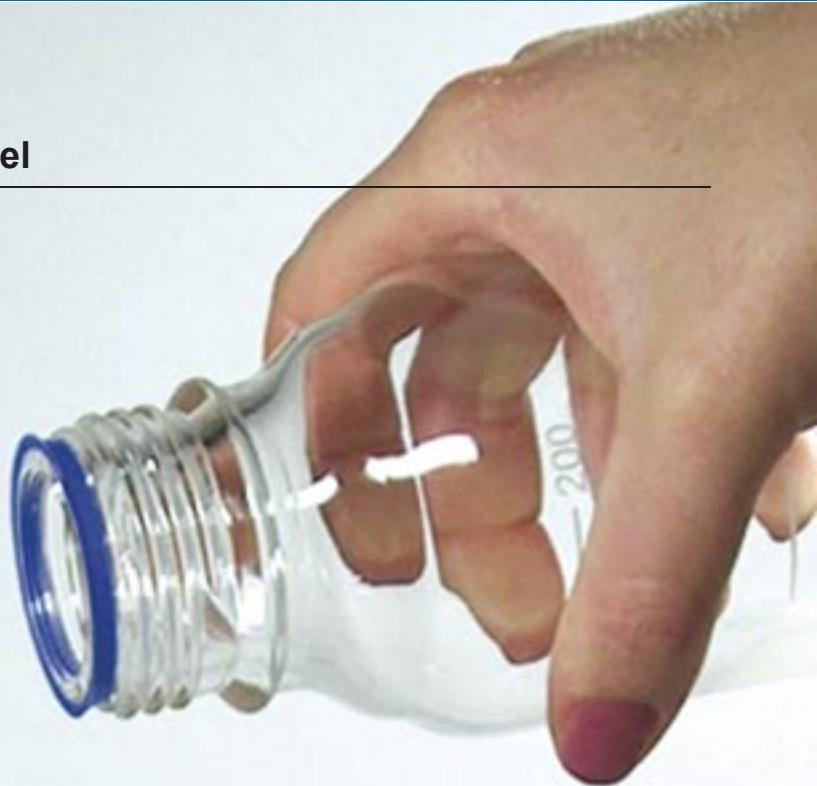
Safety Waste Caps - with Safety Funnel

SCAT Safety Funnels are solely opened when disposing waste fluids. When releasing the opening mechanism, the waste container closes automatically. Furthermore you can discharge fluids permanently through the tubing ports (e.g. for HPLC applications).

The exhaust filter avoids unfiltered escape of hazardous vapours. The most reliable way to collect waste fluids.



Please order your
Exhaust Filters separately
(see page 20) !



Part No.	Thread	Tubing Ports	Suitable Containers
108132	S 50	2 ports for 2.3/3.2mm OD tubing	See page 46
108033	S 55	2 ports for 2.3/3.2mm OD tubing	See page 46
108034	S 60 / 61	2 ports for 2.3/3.2mm OD tubing	See page 46
108150	S 65	2 ports for 2.3/3.2mm OD tubing	See page 47
108035	S 70 / 71	2 ports for 2.3/3.2mm OD tubing	See page 47
108151	B 83	4 ports for 2.3/3.2mm OD tubing	See page 47
108152	S 90	4 ports for 2.3/3.2mm OD tubing	See page 48
108153	S 95	4 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID tubing	- on request -



Optimum protection: Waste Cap with safety funnel and conductive container with level floater.



THE SAFER SOLUTION!

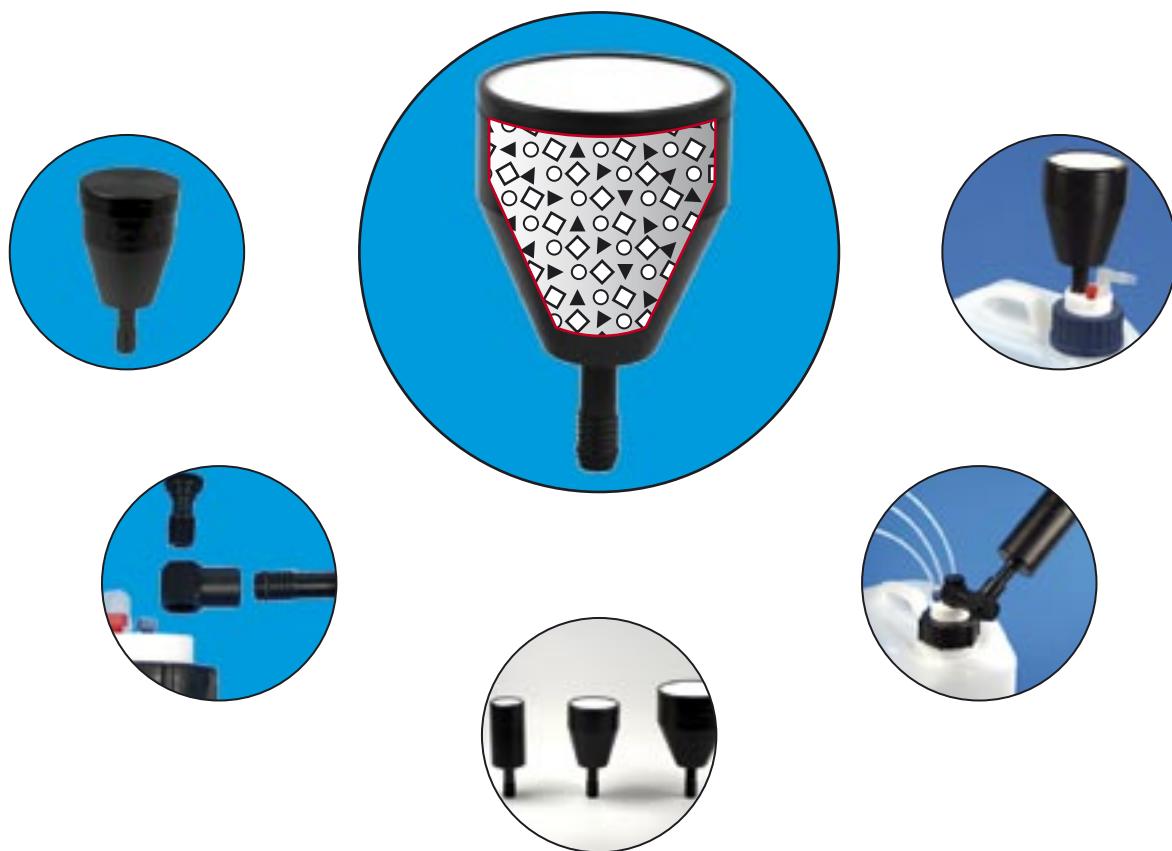




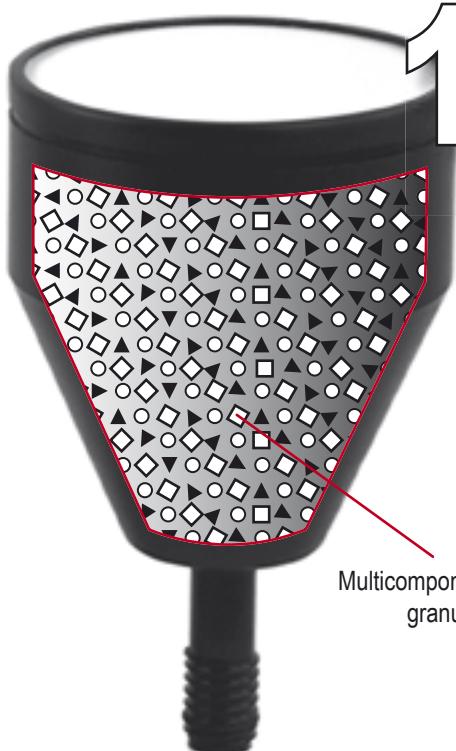
Exhaust Filters

for Safety Waste Caps

- Avoid escape of hazardous vapours and gases -



Exhaust Filters for Safety Waste Caps



120,000 sqm
screening surface
versus hazardous vapours -
for clean air

Our multicomponent granulate offers a specific filtering surface of **1.200 sqm/g** and absorbs 99% of all particulate materials evaporating from your solvents. The screening surfaces of the different filter sizes are:

Size S: **28.800 sqm**
Size M: **57.600 sqm**
Size L: **120.000 sqm**



Optional:
Exhaust filter with splash guard

The lifetime of exhaust filters depends on concentration and chemical quality of the used solvent mixtures. To calculate the individual lifetime of the filters for your application, please ask your local distributor for more information. Please also regard our safety instructions on page 50.

Exhaust Filters (standard)

Size:	S	M	L
Part No.:	107911	107914	107615

Exhaust Filters (with splash guard)

Size:	S with splash guard	M with splash guard	L with splash guard
Part No.:	107985	107982	107986

Joint Adapters for Exhaust Filters



Clever!
For use with any filter size

Not enough space in your lab? Don't worry - with our special adapters, you can fix the exhaust filter in any position you like. Practical, space-saving and flexible.

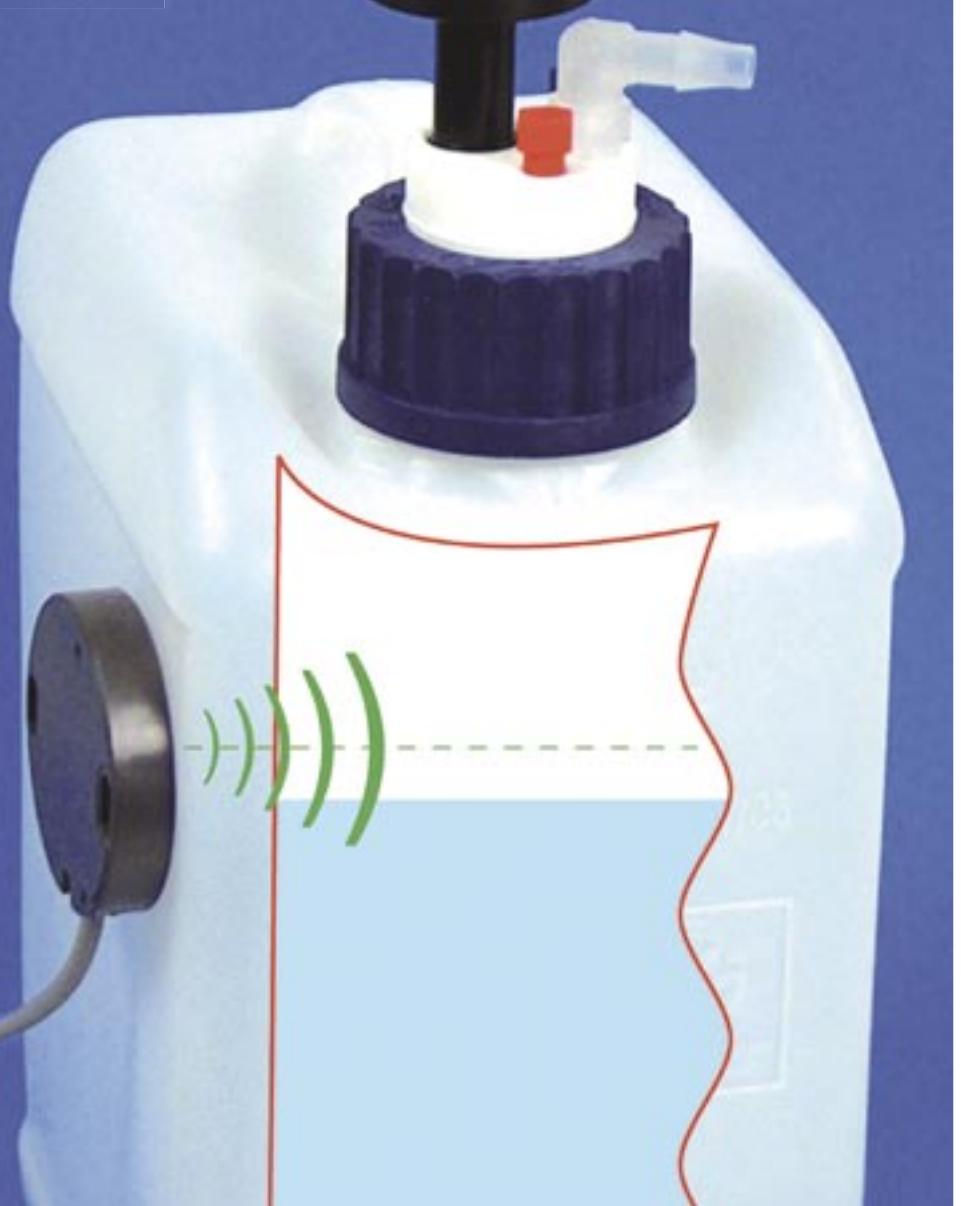
The extension offers more free moving space for connecting tubes to the cap. **The adapters can be joined in multiple ways (see photos).**



Picture	Profile	Description	Part No.
		Extension for exhaust filters (Can be joined with any other adapter.)	107621
		Angle adapter (fixed) for exhaust filters (Can be joined with any other adapter.)	107622
		Angle adapter for exhaust filters (Can be joined with any other adapter.)	107624



THE SAFER
SOLUTION!





Level Control

for safe monitoring of fluid levels
- mechanically and electronically



Level control - mechanical



Safe level monitoring - space-saving and without electronics

The red level floater indicates the critical fluid level - mechanically, without electronics - for solid safety. The tubing ports are available for multiple tubing sizes.

Part No.	Cap	Tubing Ports	Suitable Containers
107960	S 55	3 ports for 2.3/3.2mm OD tubing	See page 46
107963	S 55	2 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID tubing	See page 46
107961	S 60 / 61	3 ports for 2.3/3.2mm OD tubing	See page 46
107964	S 60 / 61	2 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID tubing	See page 46
107968	S 65	4 ports for 2.3/3.2mm OD tubing	See page 47
107969	S 65	4 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID tubing	See page 47
107962	S 70 / 71	3 ports for 2.3/3.2mm OD tubing	See page 47
107965	S 70 / 71	2 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID tubing	See page 47
108155	B 83	4 ports for 2.3/3.2mm OD tubing	See page 47
108156	B 83	4 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID tubing	See page 47
107966	S 90	4 ports for 2.3/3.2mm OD tubing	See page 48
107967	S 90	4 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID tubing	See page 48



Level control - mechanical, with safety funnel



Safe disposal of waste fluids

- manually operated and through tubing

This cap additionally offers a manually operated safety funnel which is solely opened when disposing waste fluids. When releasing the opening mechanism, the container closes automatically.



Please order your
Exhaust Filters separately
(see page 20) !

Part No.	Cap	Tubing Ports	Suitable Containers
108134	S 60 / 61	2 ports for 2.3/3.2mm OD tubing	See page 46
108138	S 60 / 61	2 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID	See page 46
108135	S 65	4 ports for 2.3/3.2mm OD tubing	See page 47
108133	S 65	3 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID	See page 47
108136	S 70 / 71	4 ports for 2.3/3.2mm OD tubing	See page 47
108139	S 70 / 71	4 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID	See page 47
108137	S 90	4 ports for 2.3/3.2mm OD tubing	See page 48
108140	S 90	4 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID	See page 48



Also available with electronic level monitoring (signal box with beeper and LED).



With level floater
and safety funnel

Level control - electronic

Electronic level monitoring

- safe and comfortable

Watch fluid levels safely - even across distances of 200 meters. Critical levels are indicated by the level floater on the cap as well as by the signal box (beeper and LED).



Please order your
Exhaust Filters separately !
(see page 20)

Part No.	Cap	Tubing Ports	Suitable Containers
108200	S 55	3 ports for 2.3/3.2mm OD tubing	See page 46
108201	S 55	2 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID tubing	See page 46
108401	S 60 / 61	3 ports for 2.3/3.2mm OD tubing	See page 46
108403	S 60 / 61	2 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID tubing	See page 46
108202	S 65	3 ports for 2.3/3.2mm OD tubing	See page 47
108203	S 65	2 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID tubing	See page 47
108405	S 70 / 71	3 ports for 2.3/3.2mm OD tubing	See page 47
108407	S 70 / 71	2 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID tubing	See page 47
108204	B 83	3 ports for 2.3/3.2mm OD tubing	See page 47
108205	B 83	2 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID tubing	See page 47
108230	S 90	4 ports for 2.3/3.2mm OD tubing	See page 48
108231	S 90	4 ports for 2.3/3.2mm OD tubing 1 leak port for 6-8mm ID tubing	See page 48

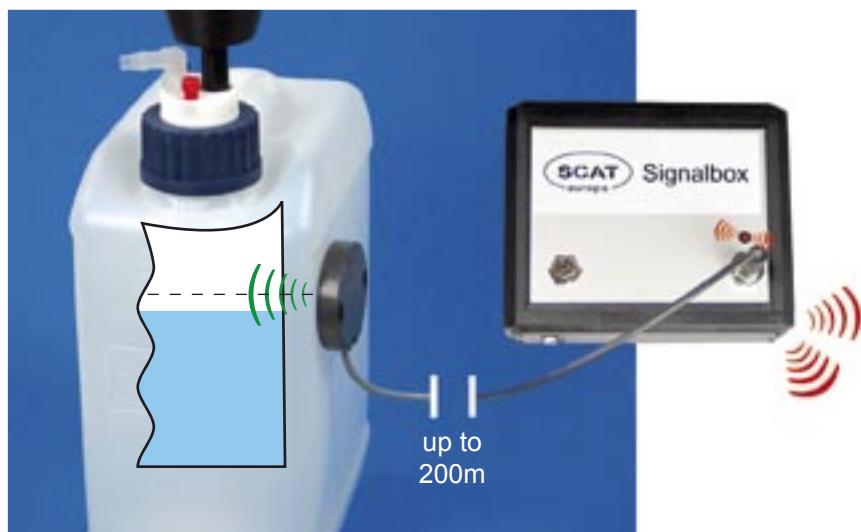


Integrated Floater and Sensor



Signal Box with LED and Beeper

Level control - electronic, touchless



Level monitoring without touching the fluids - with adjustable sensor. The sensitivity of the sensor can be matched with different materials - to be used with glass or any non-conductive plastic containers. The critical fluid level is indicated by the **beeper** and **LED** on the signal box.

Part No. Description

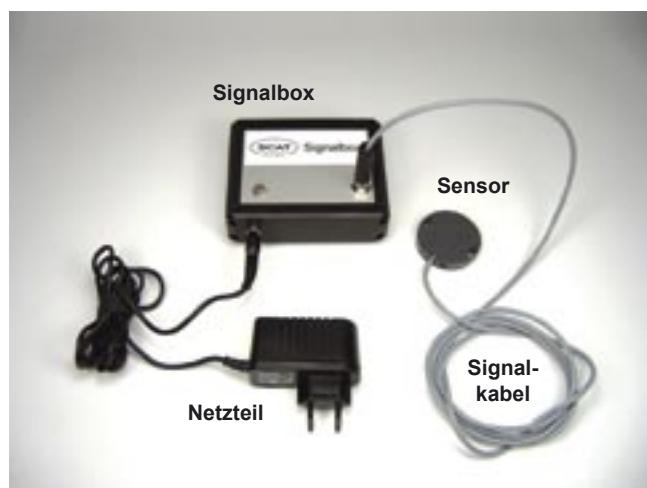
107990	Sensor with signal box, power supply (110/230V), signal cable and mounting parts
--------	--

Info

Also available as low-level warning

No more HPLC interruptions because of insufficient solvent supply !

The **practical** solution - no tools necessary !



Simply fix the sensor to the container (fixing materials incl.) and connect to power outlet - ready to run. No further arrangements necessary.

Tip
Watch up to 15 containers at the same time! With multichannel signal boxes (see next page).

Tip
Extension cables for signal transmission up to 200 meters - see next page.

Signal Boxes (for electronic Level Control)



Watch up to 15 fluid levels at the same time - with SCAT signal boxes. Furthermore, you can switch auxiliary equipment (pumps, HPLC systems etc.) by the integrated relay contact.

All boxes delivered with 110/230V power supply.

Part No. Description

108036	Signal Box (1 channel), with power supply
108041	Signal Box (5 channels), with power supply
108049	Signal Box (15 channels), with power supply

Extension Cables and Power Supplies



Cables for signal transmission and relay contact. Simply combine the signal cables to monitor containers across distances **up to 200 meters**. Switch auxiliary equipment on / off by the **relay contact cable** when reaching critical fluid levels.

Part No. Description

108050	Extension cable for signal transmission, 3m
108037	Extension cable for signal transmission, 5m
108038	Extension cable for signal transmission, 10m
108039	Cable for relay contact, 5m
108040	Cable for relay contact, 10m
108048	Level sensor, singular



Signal boxes can be used with 110 / 230V mains voltage, both with the same power pack.

Part No. Description

108051	110 / 230 V power supply for signal boxes
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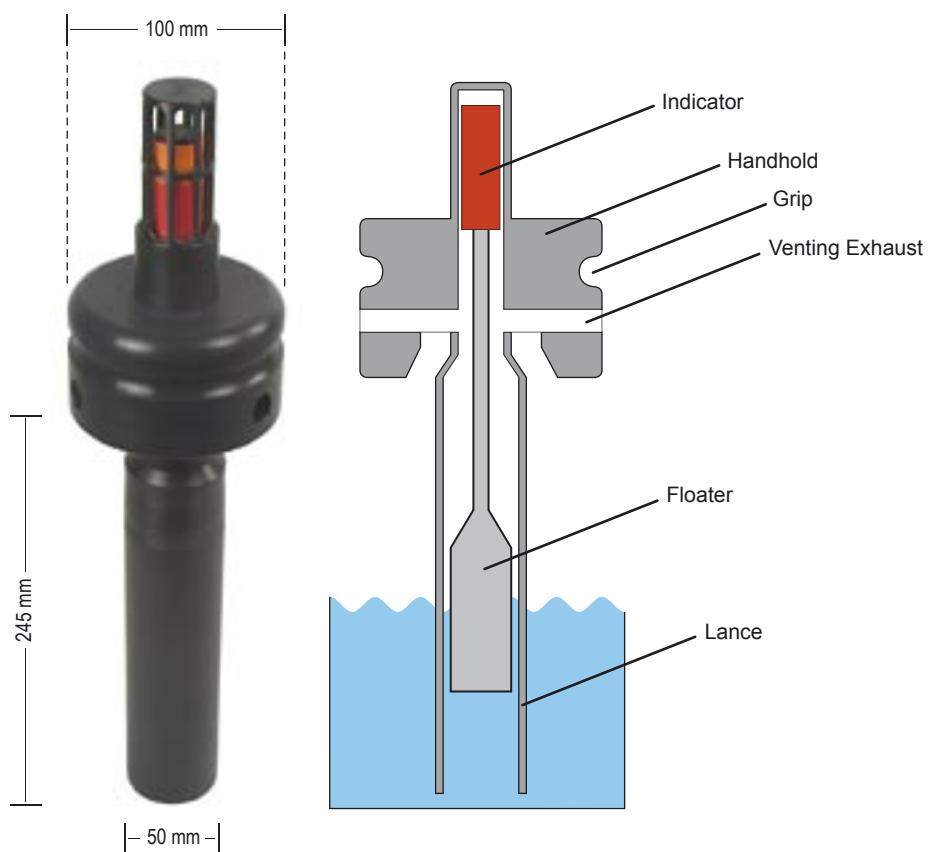
Level Control for Barrel Filling



Safe barrel filling.

Reliable protection against overflow during the filling. Fits into any barrel opening from 50mm to 90mm diameter. Practical handhold, for easy use with gloves.

Part No.	Description	Material
107880	Level control for barrels with min. 50mm opening.	Floater: PE Lance: PE Indicator: ETFE
107881	Level control for barrels with min. 50mm opening.	Floater: PFA Lance: PTFE Indicator: ETFE



Available in other sizes on request. Please ask us for developing an individual solution for your laboratory, plant stations or repositories.

Available in multiple materials - suitable for use with any chemicals !

Containers with integrated Floater (Level Control)



Containers for safe fluid disposal. The floater indicates critical levels and avoids overflow. Capable for use with safety funnels (see next chapter).

Containers made of **electroconductive PE-HD** can be grounded and avoid electrostatic charge, especially when using them in sensitive areas.

On page 45, you can find useful antistatic supplies and accessories.



Other containers can also be equipped with level floaters !



Pict.	Part No.	Thread	Volume	Material, Colour
A	108042	S 60 / 61	10 L	PE-HD, conductive, black
B	108043	S 60 / 61	20 L	PE-HD, conductive, black
C	108056	S 60 / 61	20 L	PE-HD, translucent
D	108945	S 50	5 L	PE-HD, translucent Space Saving Container
---	108220	S 90	10 L	PE-HD, conductive, black





Safety Funnels

for safe disposal of waste fluids





Safety Funnels

Safe disposal of liquid waste

Safety funnels



SCAT Safety Funnels open solely when disposing fluids. The ball valve closes automatically and keeps your container reliably closed. The screw cap can rotate freely for proper sealing.



Please find all safety funnels available on next page



Example of use: Safety Funnel with electroconductive PE-HD container



Tip
The stainless steel sieve offers:
- additional splash guard
- filter for your magnetic stirrers



Info
Please find more safety funnels on pages 17 and 25.



Safety Funnel made of non-conductive PE-HD (without sieve)



Safety Funnels (PE-HD, electroconductive)



Available with and without sieve. Delivered with antistatic cable.

Part No.	Cap	Material	Part No. with sieve
107672	GL 45	PE-HD (electroconductive), black	108972
107674	S 51	PE-HD (electroconductive), black	108974
107675	S 55	PE-HD (electroconductive), black	108975
107671	S 60 / 61	PE-HD (electroconductive), black	108971
107676	S 65	PE-HD (electroconductive), black	108976
107678	S 70 / 71	PE-HD (electroconductive), black	108978
107677	B 83	PE-HD (electroconductive), black	108977
107673	S 90	PE-HD (electroconductive), black	108973

Safety Funnels (PE-HD)



Available with and without sieve.

Part No.	Cap	Material	Part No. with sieve
107972	GL 45	PE-HD, white	108672
107974	S 51	PE-HD, white	108674
107975	S 55	PE-HD, white	108675
107971	S 60 / 61	PE-HD, white	108671
107976	S 65	PE-HD, white	108676
107978	S 70 / 71	PE-HD, white	108678
107979	B 83	PE-HD, white	108679
107973	S 90	PE-HD, white	108673

Stainless Steel Sieve (singular) for Safety Funnels



Part No.	Description
107715	Stainless steel sieve, singular, for safety funnels. Housing: PE-HD, electroconductive, black. Sieve: Stainless steel.



THE SAFER
SOLUTION!





Accessories and Consumables

Useful supplies and consumables for
SCAT Safety Caps





Polypropylene Fittings



For 1.6, 2.3 and 3.2mm OD tubing (same fitting for all sizes). **Please choose suitable PTFE ferrules for your tubing size separately (see below).**

Part No.	Description	Unit
160304	Polypropylene Fittings, coloured	Box of 10

PTFE Ferrules



For Polypropylene Fittings. Please take care of correct assembling (see drawings on page 8 and 12).

Part No.	Description	Unit
107905	PTFE Ferrules, ID=1.6mm (1/16")	Box of 10
107906	PTFE Ferrules, ID=2.3mm	Box of 10
107908	PTFE Ferrules, ID=3.2mm (1/8")	Box of 10

One-Piece PTFE Fittings (with integrated Ferrule)



The capable solution in one piece, with integrated ferrule. High chemical resistance, recommended for use with organic solvents. Also needful for Safety Caps with shut-off (see page 8)

Part No.	Description	Unit
107041	PTFE-Fitting with integrated Ferrule ID = 1.6mm (1/16")	Box of 10
107042	PTFE-Fitting with integrated Ferrule ID = 2.3mm	Box of 10
107043	PTFE-Fitting with integrated Ferrule ID = 3.2mm (1/8")	Box of 10
107044	PTFE-Fitting with integrated Ferrule ID = 6.35mm (1/4")	Box of 1
107045	PTFE-Fitting with integrated Ferrule ID = 4.76mm (3/16")	Box of 1

PTFE 3-way Angled Collector for Leak Port



Suitable for the **leak port** on all Safety Caps. Space-saving version, can be fixed with SCAT hexagon wrench (Part No. 160500), see page 39.

Part No.	Description	Unit
160131	3-way Angled Collector for Leak Port 3 Ports for 1.6/2.3/3.2mm OD tubing Materials: Collector PTFE, Fittings Polypropylene	Box of 1
160130	3-way Angled Collector for Leak Port 2 Ports for 1.6/2.3/3.2mm OD tubing 1 Leak Port for 6-8mm ID tubing Materials: Collector PTFE, Fittings Polypropylene	Box of 1

PTFE 3-way Collector for Leak Port



Suitable for the Leak Port on all Safety Caps

Part No.	Description	Unit
160132	3-way Collector for Leak Port 3 Ports for 1.6/2.3/3.2mm OD tubing. Materials: Collector PTFE, Fittings Polypropylene	Box of 1

PTFE Manifold for Tubing



For 1.6 / 2.3 / 3.2mm OD tubing. Please use polypropylene fittings or One-Piece PTFE fittings from page 37.

Part No.	Description	Unit
160134	PTFE Manifold for 1.6 / 2.3 / 3.2mm OD tubing. Materials: Manifold PTFE, Fittings Polypropylene.	Box of 1



Please use fittings and ferrules from page 37.

Installation Wrenches for Fittings



Available for both types of SCAT standard fittings (square and hexagon). For comfortable assembling and customizing of SCAT Safety Caps.

Part No.	Description	Profile	Unit
160499	Square Box Wrench for SCAT Polypropylene Fittings (e.g. No. 160304)		Box of 1
160500	Hexagon Wrench for SCAT PTFE Fittings (e.g. No. 107041, 107042, 107043)		Box of 1

PTFE Plugs for Safety Caps



If several Safety Cap ports are temporarily not in use, you can close them with PTFE plugs. That way you maintain protection against escaping vapours.

Part No.	Description	Unit
160504	PTFE Plugs for Standard Ports	Box of 10
160506	PTFE Plug for Leak Ports	Box of 1
107620	PTFE Plug for Exhaust Filter Ports	Box of 1

PTFE Plug for NS 29/32mm bottles



With counter nut for easy disconnecting and removal even after long time of use.

Part No.	Description	Unit
107507	PTFE Plug for NS 29/32mm bottles with Counter Nut (Polypropylene)	Box of 1

PTFE Tubing



Standard tubing for HPLC, in different sizes. **Available in multiple diameters and lengths, on request.**

Part No.	OD	ID	Unit
461053	1.6 mm	1.0 mm	3 m
461054	2.3 mm	1.7 mm	3 m
461055	3.2 mm	1.6 mm	3 m

CleanCut Tubing Cutter



Tubing cutter with additional blade for replacement, qualified for any kind of plastic tubing. For safe, clean cutting.

Part No.	Description	Unit
900103	CleanCut Tubing Cutter	Box of 1

Solvent Filters



Solvent Filters for 3.2mm (1/8") OD tubing. Ready for use. No tools necessary. Protect your HPLC system against contamination from solvents.

Part No.	Description	Unit
300021	Solvent Filters, Polypropylene for 3.2mm (1/8") OD Tubing	Box of 5
300022	Solvent Filters, Membrane PTFE, Housing PFA, for 3.2mm (1/8") OD Tubing	Box of 5

Air Valve for Safety Caps



Qualified for any SCAT Safety Caps. **Renew every 6 months** for optimum protection against escaping vapours.

Part No.	Description	Unit
107010	Air Valve for SCAT Safety Caps	Box of 1

Air Filter for Air Valve (PTFE Membrane)



Air filters can simply be fixed on the air valve. Keeps the venting air clean, avoids dust contamination of solvents.

Part No.	Description	Unit
107980	Air Filters with PTFE Membrane	Box of 10

Joint Adapters for Exhaust Filters



Fix the exhaust filter in any position you like. For space-saving storage in cupboards and floor units. The adapters can be joined in multiple ways (see photos on page 21).

Picture	Profile	Description	Part No.
		Extension <i>(can be joined with any other adapter)</i>	107621
		Angle Adapter <i>(fixed)</i> <i>(can be joined with any other adapter)</i>	107622
		Angle Adapter <i>(swivel)</i> <i>(can be joined with any other adapter)</i>	107624

PTFE Distance Rings for GL45 Safety Caps



Distance Rings for Safety Caps (see pages 8 / 9).

For short neck bottles.

Part No.	Description	Unit
107020	PTFE Distance Rings for Safety Caps	Box of 1

Thread Adapters



Suit Safety Caps to nearly any kind of bottle or container. Simply choose a qualified adapter for your thread size.

Part No.	Container	Safety Cap	Material, Colour
107993	GL 32	GL 45	PTFE, white
107996	GL 32	GL 45	Polypropylene, natural
107992	GL 38	GL 45	PTFE, white
107995	GL 38	GL 45	Polypropylene, natural
107991	GL 40 / S 40	GL 45	PTFE, white
107994	GL 40 / S 40	GL 45	Polypropylene, natural
117094	GL 45	S 55	PTFE, white
107094	GL 45	S 55	Polypropylene, natural
107093	S 51	GL 45	Polypropylene, natural
117095	S 51	S 55	PTFE, white
107095	S 51	S 55	Polypropylene, natural
107097	S 51	S 60	Polypropylene, natural
107099	S 55	GL 45	Polypropylene, natural
107096	S 55	S 60	Polypropylene, natural
108021	2" BSP	S 60 (interior)	Polypropylene, grey
108022	2" BSP	S 60 (exterior)	Polypropylene, black
108444	2" Fine Thread	S 63 - S 65	Polypropylene, white
107022	2" Fine Thread	TriSure Grob	Polypropylene, orange



Adapters for
other thread sizes
available (on
request) !

Straight Connectors for Leak Port



These connectors fit into the leak port on any SCAT Safety Waste Cap.

Part No.	OD (Tubing ID)
107811	2-3 mm
107812	3-4 mm
107813	4-5 mm
107814	5-6 mm
107816	6-8 mm
107817	10 mm



Leak port for major sized tubing.

Angle Connectors for Leak Port



These connectors fit into the leak port on any SCAT Safety Waste Cap.

Part No.	OD (Tubing ID)
107808	6.40 - 8.00 mm
107810	9.50 - 10.50 mm



Leak port for major sized tubing.

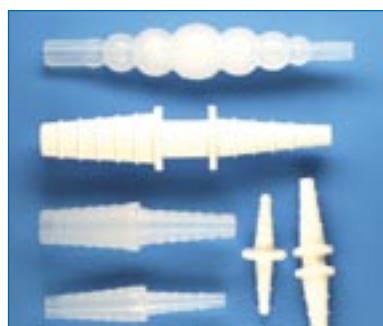
Y-Connectors (Polypropylene)



For any kind of flexible tubing (e.g. silicone)

Part No.	for Tubing ID
107801	3 mm
107802	4 mm
107803	5 mm
107804	6-7 mm
107806	8-9 mm
107807	11 mm

Conical Connectors and Reducers



For any kind of flexible tubing (e.g. silicone).

Part No.	Side 1 Tubing ID	Side 2 Tubing ID
107818	11 to 15 mm	7 to 12 mm
107819	7 to 11 mm	4 to 7 mm
107820	10.5 to 16 mm	6.5 to 12 mm
107821	12 to 16 mm	4 to 8 mm
107822	6.5 to 11 mm	3 to 7.5 mm
107823	6.5 to 11 mm	6.5 to 11 mm
107824	4.2 to 8 mm	4.2 to 8 mm
107825	3 to 5.9 mm	3 to 5.9 mm
107826	5 to 18 mm	7.5 to 18 mm

SafeLock Connectors



Safe and proper connecting of tubing to Safety Caps. With integrated valves. Containers remain closed when disconnecting tubes.

SafeLock Connectors can be installed in any Safety Cap or Safety Waste Cap. Please specify type and number of connectors in your order.



Part No.	Description	Unit
160135	SafeLock Connector incl. 2 pc. of Tubing (3.2mm OD, Length=1.5m)	Box of 1
160136	SafeLock Connector for Leak Port	Box of 1



SafeLock Connectors will be adjusted individually. Please ask your local distributor for detailed information.

Antistatic Set



For safe grounding of electroconductive containers. For multiple applications. Delivered with useful transport case.

Part No.	Description
107981	Antistatic Set
	- 1 Cable with Clamps (red), 3m
	- 1 Cable with Clamps (black), 3m
	- 1 Cable with 1 Clamp and open End (blank Copper)
	- 1 Instruction Manual
	- 1 Transport Case

Grounding Cable



Available in different lengths, with different types of connectors

Part No.	Connector 1	Connector 2	Length
108009	Clamp	Clamp	1.5 m
108012	Clamp	Clamp	2.0 m
108010	Clamp	Spring Clip	1.5 m
108013	Clamp	Spring Clip	2.0 m
108014	Clamp	Ring (10mm)	2.0 m
108011	Clamp	Ring (10mm)	1.5 m
107938	Clamp	Connector for Safety Waste Cap	1.5 m
107939	Clamp	Connector for Safety Waste Cap	2.0 m

Electroconductive Plastic Tubing



Made of electrically conductive PTFE. Extremely light, for safe transfer of flammable and sensitive fluids. **Also available as FLEX version (unbreakable).**

Part No.	ID	OD	Profile
108015	9.0 mm	13.0 mm	Flex (Spiral)
108016	4.0 mm	6.0 mm	Plane
108017	6.0 mm	8.0 mm	Plane
108018	8.0 mm	10.0 mm	Plane
108019	10.0 mm	12.0 mm	Plane



Extremely Flexible !

GL 45 - Containers (PE-HD)



Qualified for any Safety Caps with GL45 thread. Made of chemically resistant PE-HD.

Part No.	Volume	Measurements (LxBxH) in mm
107950	2.5 L	150 x 122 x 194
107951	5.0 L	192 x 145 x 247
107952	10.0 L	231 x 192 x 317

S 51 / S 55 - Containers (PE-HD)



Qualified for any Safety Caps with S51 / S55 thread. Made of chemically resistant PE-HD.

Part No.	Volume	Thread	Measurements (LxBxH) in mm
107958	5.0 L	S 51	165 x 190 x 223
107957	5.0 L	S 55	182 x 162 x 235
107955	10.0 L	S 55	230 x 196 x 310

S 60 / S 61 - Containers (PE-HD - optional: conductive PE-HD)



Select from different Materials: PE-HD or **electrically conductive PE-HD**. Each container delivered with screw cap and UN approval.

Part No.	Volume	Material	Measurements (LxBxH) in mm
107953	10 L	PE-HD (conductive)	198 x 264 x 298
108028	10 L	PE-HD (conductive)	230 x 195 x 340
108027	20 L	PE-HD (conductive)	298 x 198 x 498
107956	20 L	PE-HD (translucent)	290 x 255 x 390
107959	30 L	PE-HD (translucent)	380 x 280 x 400
108042 (see page 30)	10 L	PE-HD (conductive) with level floater	380 x 280 x 420
108043 (see page 30)	20 L	PE-HD (conductive) with level floater	298 x 198 x 518
108056 (see page 30)	20 L	PE-HD (translucent) with level floater	290 x 255 x 450

S 65 - Containers (PE-HD)



Qualified for any Safety Caps with S65 thread. Made of chemically resistant PE-HD.

Part No.	Volume	Description
107704	10 L	Round Container S65 Height 430mm, Original Screw Cap Ø 210mm.

S 70 / S 71 - Containers (PE-HD, electroconductive)



Qualified for any Safety Caps with S70 / 71 thread. Made of chemically resistant PE-HD, **electroconductive**

Part No.	Volume	Measurements (LxBxH) in mm
107954	30 L	265 x 425 x 365
107940	60 L	330 x 360 x 620

B 83 - Containers (PE-HD)



Qualified for any Safety Caps with B83 thread. Made of chemically resistant PE-HD.

Part No.	Volume	Description
107706	10 L	Round Container B83, Height 390mm, with Screw Cap

S 90 - Containers (PE-HD, optional: electroconductive PE-HD)



Qualified for any Safety Caps with S90 thread. With carrier handle and screw cap. Made of chemically resistant PE-HD, also available made of **electroconductive PE-HD**.

Part No.	Volume	Material	Measurements (LxWxH) in mm
108020	10 L	PE-HD	190 x 190 x 365
108120	10 L	PE-HD (conductive)	190 x 190 x 365
108220 (see page 30)	10 L	PE-HD (conductive) with level floater	190 x 190 x 365

NEW

Space-Saving Container (S 50 thread)



For effective, space saving placement. **Only 65mm wide !**
Made of chemically resistant PE-HD.

Part No.	Volume	Material	Measurements (LxWxH) in mm
107998	5 L	Polypropylene	335 x 65 x 335
108945 (see page 30)	5 L	Polypropylene, with level floater	335 x 65 x 395

NEW

Safety Spouts for Containers



For safe, manually operated disposal. Spouts with safety ventilation offer additional safety by constant flow without bubbles.

Part No.	Thread	Description
610503	S 70 / 71	Safety Spout, flexible , with safety ventilation
610501	S 60	Safety Spout, flexible , with safety ventilation
610499	S 55	Safety Spout, flexible , with safety ventilation
610500	S 55	Safety Spout, fixed , with safety ventilation
610502	S 60	Safety Spout, fixed



Also available in
other sizes (on
request) !

Bottles (Clear Glass) - GL45 Thread



Round bottles with scale (ml) and screw cap. **Also available with protective covering!**

Part No.	Volume	Part No. with protective Covering
501117	250 ml	101994
501116	500 ml	101995
501113	1000 ml	101996
501118	2000 ml	101997
501125	5000 ml	101998

Bottles (Brown Glass) - GL45 Thread



Round bottles (brown glass) with scale (ml) and screw cap.

Part No.	Volume
501121	250 ml
501120	500 ml
501119	1000 ml

Square Bottles (Clear Glass) - GL45 Thread



Four-cornered bottles for space saving placement. Each bottle with scale (ml) and screw cap.

Part No.	Volume
501112	250 ml
501115	500 ml
501110	1000 ml

Earthing and Antistatics

SCAT Products for earthing are designed for connection to zero potential installations, like water pipes or other grounded components. Do not connect them to live wires or energized components (e.g. power outlets) ! Please consider your local safety instructions and prescriptions.



Safety & Health

Please pay attention to hazard signs in your establishment and notice safety information on your chemicals' package.

Always wear proper protective clothing when working with chemicals marked as hazardous.

Chemical Compatibility

Due to the variety and manifold composition of commercially available chemicals, we can not issue any warranty on chemical compatibility with our products. The most chemical resistant materials are used for manufacturing of SCAT Safety Caps, according to the results of the latest research. In this connection, the special requirements of HPLC applications are being considered. You can receive detailed information on chemical compatibility from the producer of your chemicals.

Our specialists can advise users effectively on choosing the suitable SCAT product for their application. The customer is responsible for choosing the adequate chemicals. We can not issue any guarantee for the results or assume liability for application of our products concerning their chemical compatibility.

Warranty and Safety of SCAT Products

Detailed quality control assures that you always receive accurate products from us. However, if any components should be defective, you will receive replacement free of charge. As our items are technically sophisticated, we can not substitute products that have been technically modified by the user.

In the same way, restitution of custom-made and special designed products is impossible. These items are manufactured exactly according to the guidelines of the customer who has to verify their suitability.

We can not assume liability for any accidents that result from improper handling or technical manipulation of our products.





STAY ON THE
SAFE SIDE
WITH
S·C·A·T SAFETY PRODUCTS



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