

Safety Caps

working safely with
dangerous liquids



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.

Introduction - Safety and environment protection

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| 73% reduction of hazardous substances and air pollution | 5 |

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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.



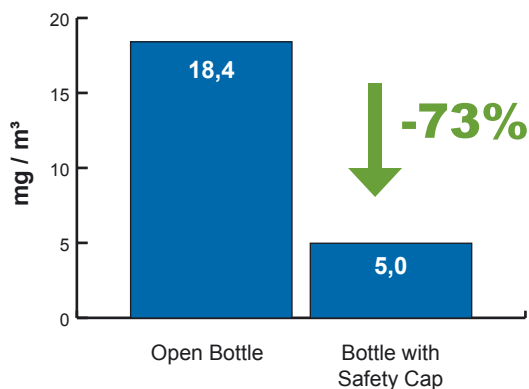


Health - Environment - Economy

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%.

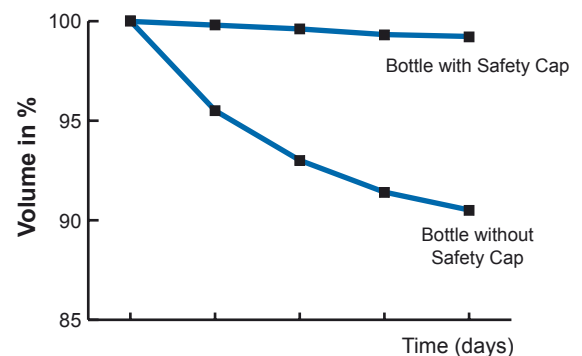
Emissions of Acetonitrile in a test laboratory (during HPLC operation)



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.

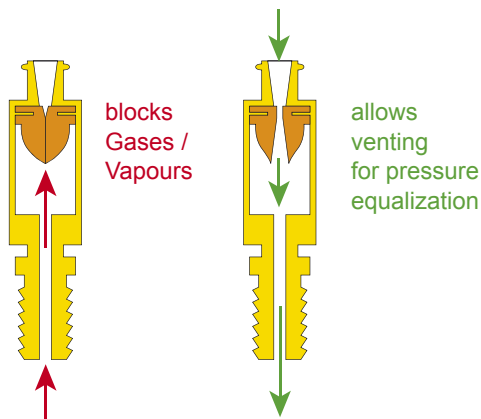
Solvent shrinkage
Methanol-Water mixture (80/20)
after 1 week of testing



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.

Air Valve Function

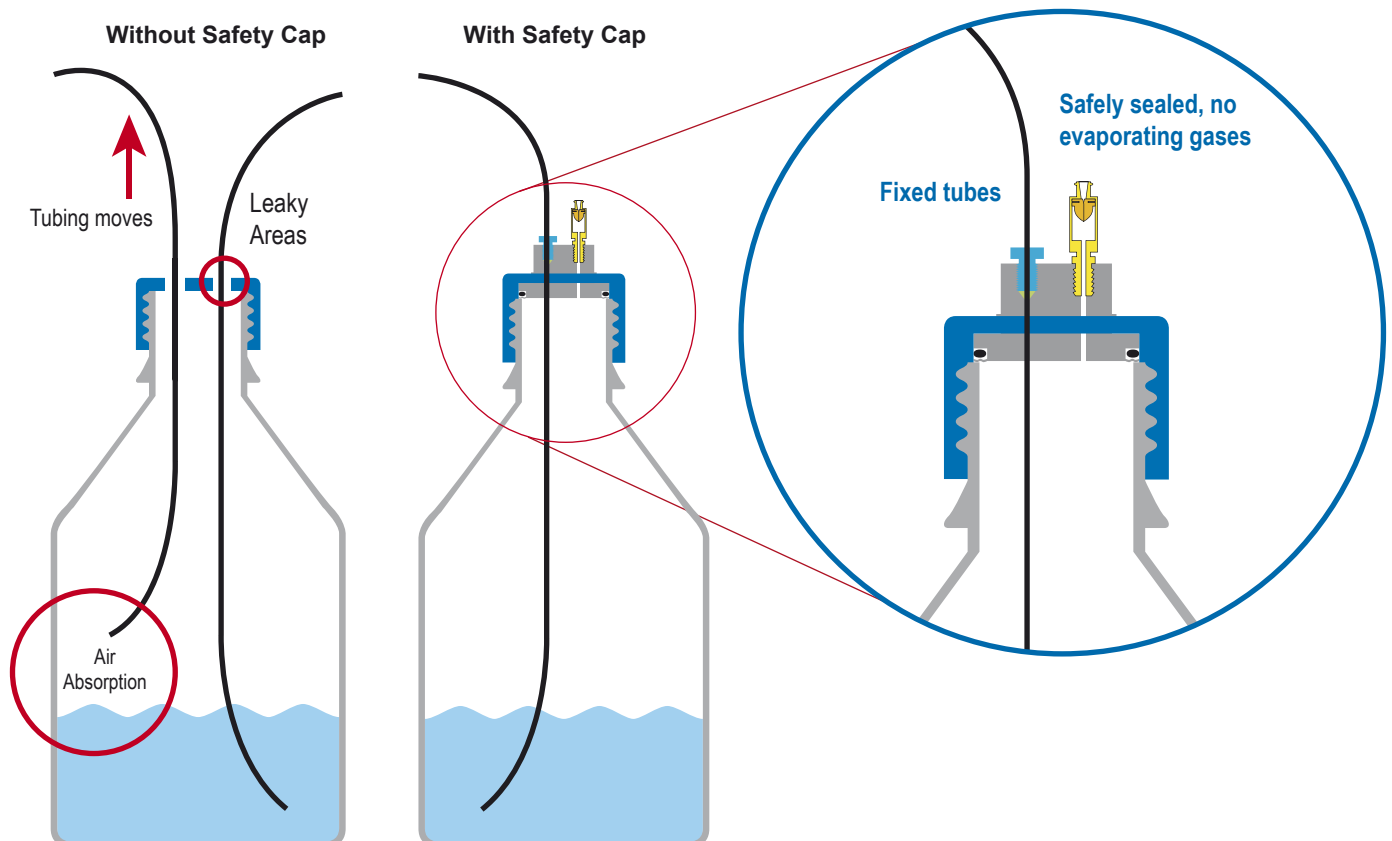


Tubes remain
fixed

Safety Cap can
rotate



The Difference in Liquid Handling





Safety Caps

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



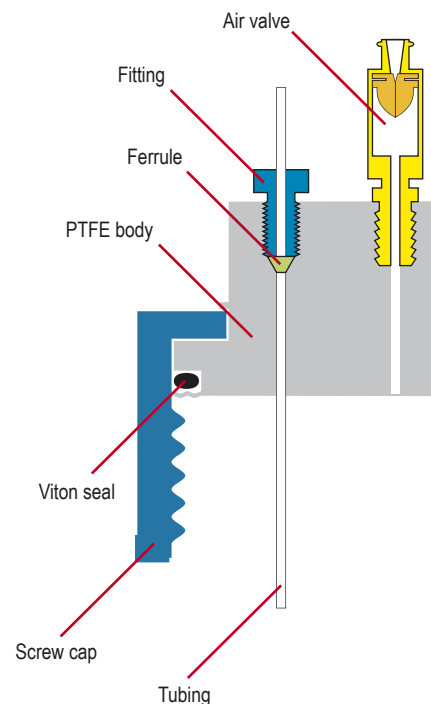
Safety Caps - Safe Fluid Supply



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



Adapters for other thread sizes available !

| 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 |

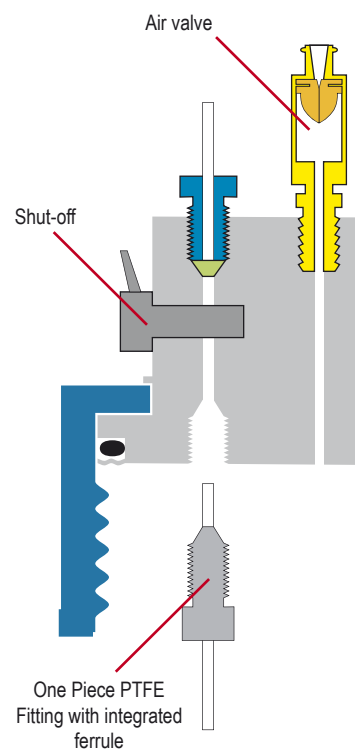
Safety Caps - with Shut-Off



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:**

Available connectors for tubing:

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



Adapters for other thread sizes available !

| 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 |



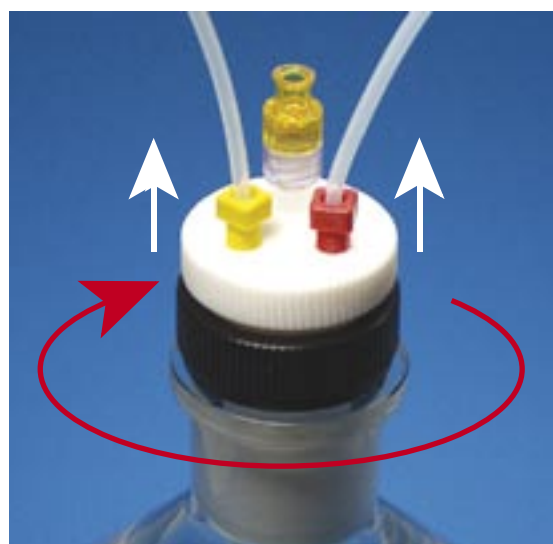
Safety Caps (2 in 1)



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. |



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

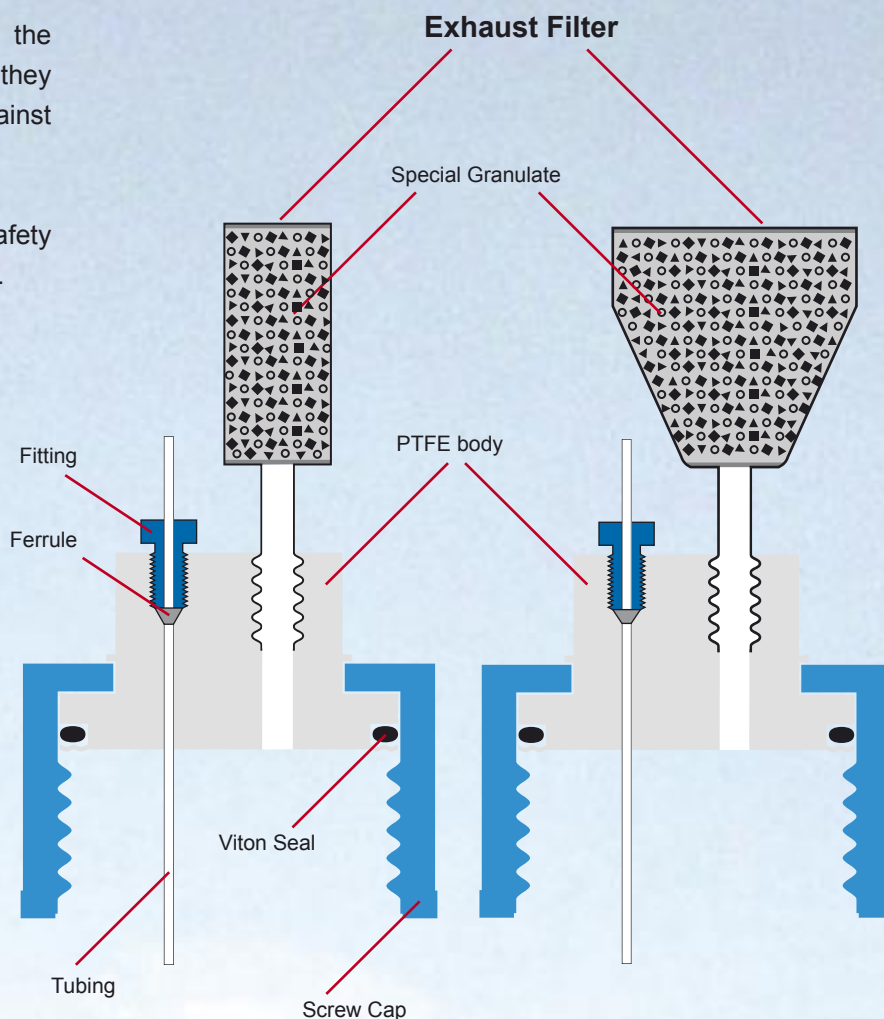
for safe disposal of liquid waste. Find appropriate Safety Waste Caps for most common thread sizes on the following pages. The **exhaust filters** can be used with any SCAT Safety Waste Cap.



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 |  Leak port for bigger tubing sizes |
|------------------------|---|--|--|
| |  |  | |
| | Tubing Ports | 3x 2.3/3.2mm OD | 2x 2.3/3.2mm OD |
| | Leak Ports | --- | 1x 6-8mm ID |
| Antistatic Port | --- | --- | --- |



| Thread S 50 (for space saving can) | 108023 | 108025 | 108024 | 108026 |
|---|---|--|---|---|
| |  |  |  |  |
| 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 | --- | --- | Yes | Yes |



| 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 | --- | --- | Yes | Yes |




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

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 | | | |
| |  | | | |
| | Tubing Ports | 4x 2.3/3.2mm OD | | |
| | Leak Ports | 1x 6-8mm ID | | |
| Antistatic Port | | --- | | |

Ports and connectors for other tubing sizes are also available !



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



| | | | | |
|-----------------------------------|---|-----------------|-----------------|-----------------|
| Thread S 60 / 61 | 107918 | | | |
| |  | | | |
| | Tubing Ports | 3x 2.3/3.2mm OD | 2x 2.3/3.2mm OD | 3x 2.3/3.2mm OD |
| | Leak Ports | --- | 1x 6-8mm ID | --- |
| Antistatic Port | | --- | --- | 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).



| | | |
|---|--|---|
| <div>Thread</div> <div>63</div> <div>(Flat Container)</div> | <div>107038</div> <div></div> | <div>Ports and connectors for other tubing sizes are also available !</div> |
| <div>Tubing Ports</div> | <div>1x 2.3/3.2mm OD</div> | |
| <div>Leak Ports</div> | <div>3x 6-8mm ID</div> | |
| <div>Antistatic Port</div> | <div>---</div> | |



| | | | |
|------------------------------|---|--|--|
| Thread S 65 | 108046 | 108047 |   <p>Ports and connectors for other tubing sizes are also available !</p> |
| |  |  | |
| | Tubing Ports | 5x 2.3/3.2mm OD | |
| | Leak Ports | --- | |
| | 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 |
| | Leak Ports | --- | 1x 6-8mm ID | --- |
| | Antistatic Port | --- | --- | Yes |



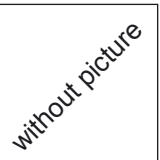
Please order your **Exhaust Filters** separately (see page 20) !

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 |  |
|------------------------|---|--|---|
| |  |  | |
| 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 |  |
|-----------------------|---|--|---|
| |  |  | |
| 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 !



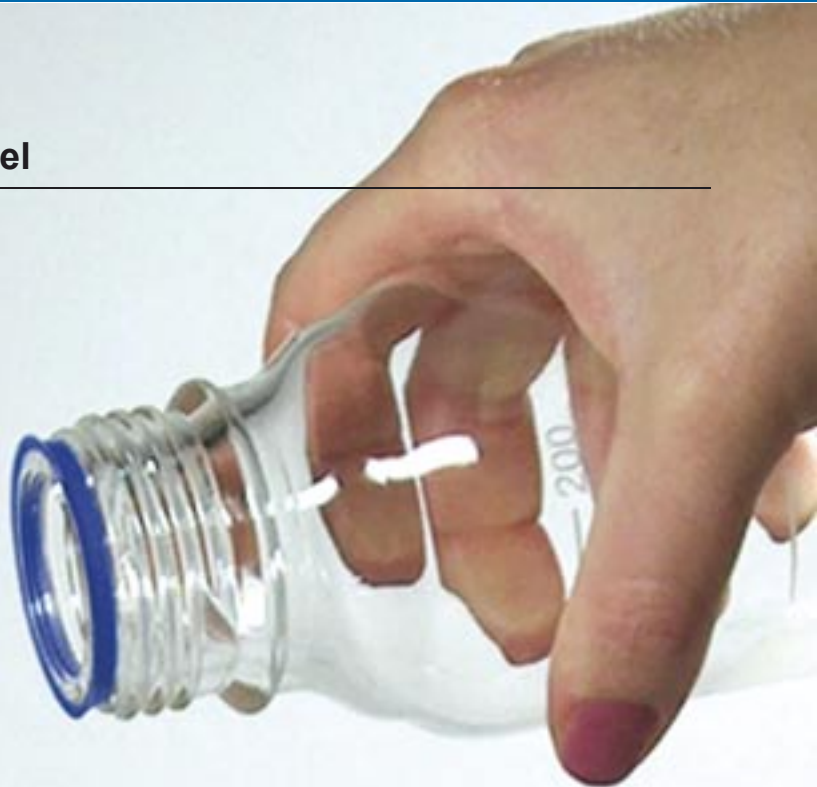
Safety Waste Caps - with Safety Funnel

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.



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SOLUTION!





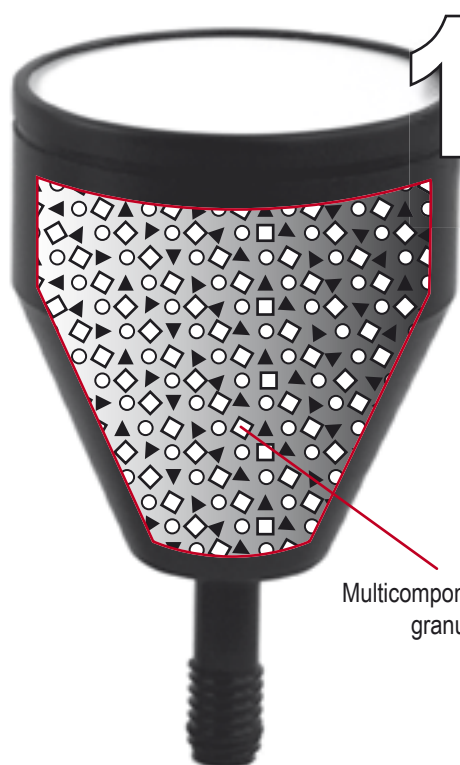
Exhaust Filters

for Safety Waste Caps

- Avoid escape of hazardous vapours and gases -



Exhaust Filters for Safety Waste Caps



Multicomponent special granulate

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

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 |

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.



Joint Adapters for Exhaust Filters






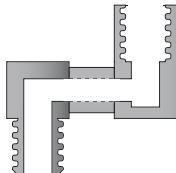

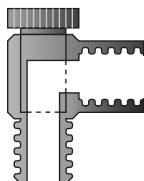
Clever !

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 <i>(Can be joined with any other adapter.)</i> | 107621 |
|  |  | Angle adapter (fixed) for exhaust filters <i>(Can be joined with any other adapter.)</i> | 107622 |
|  |  | Angle adapter for exhaust filters <i>(Can be joined with any other adapter.)</i> | 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).

| 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 |

With level floater and electronic sensor !



Integrated Floater and Sensor

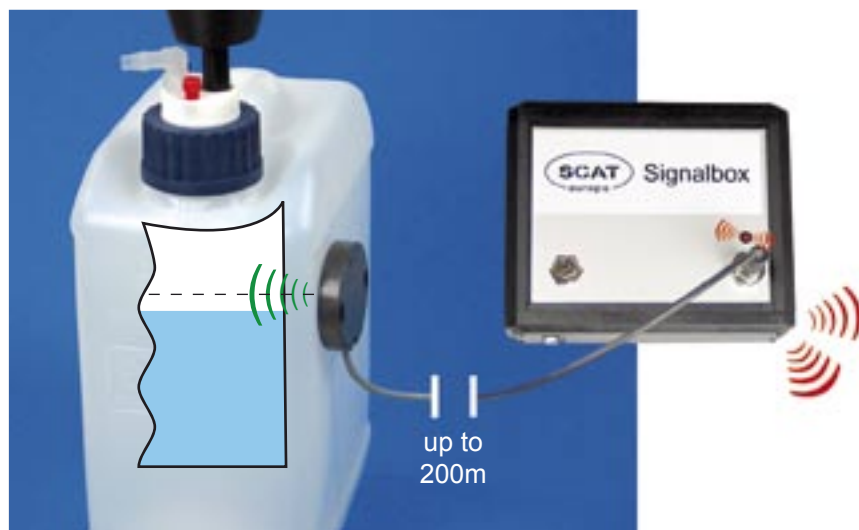


Signal Box with LED and Beeper



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

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.

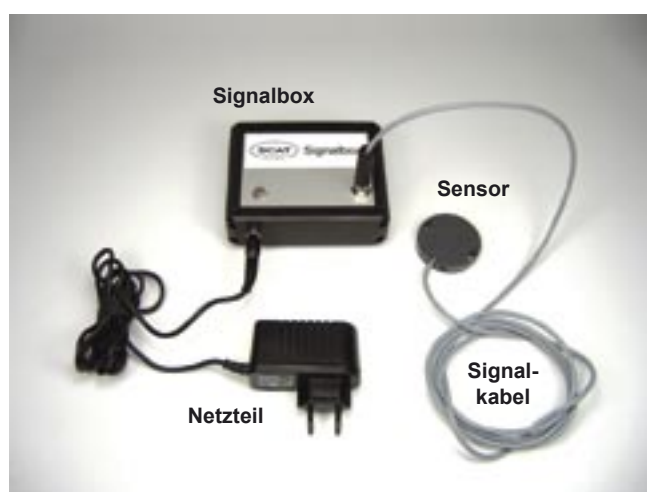
| Part No. | Description |
|----------|--|
| 107990 | Sensor with signal box, power supply (110/230V), signal cable and mounting parts |

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 |

| 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 |

| 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 |

| Part No. | Description |
|----------|---|
| 108051 | 110 / 230 V power supply for signal boxes |



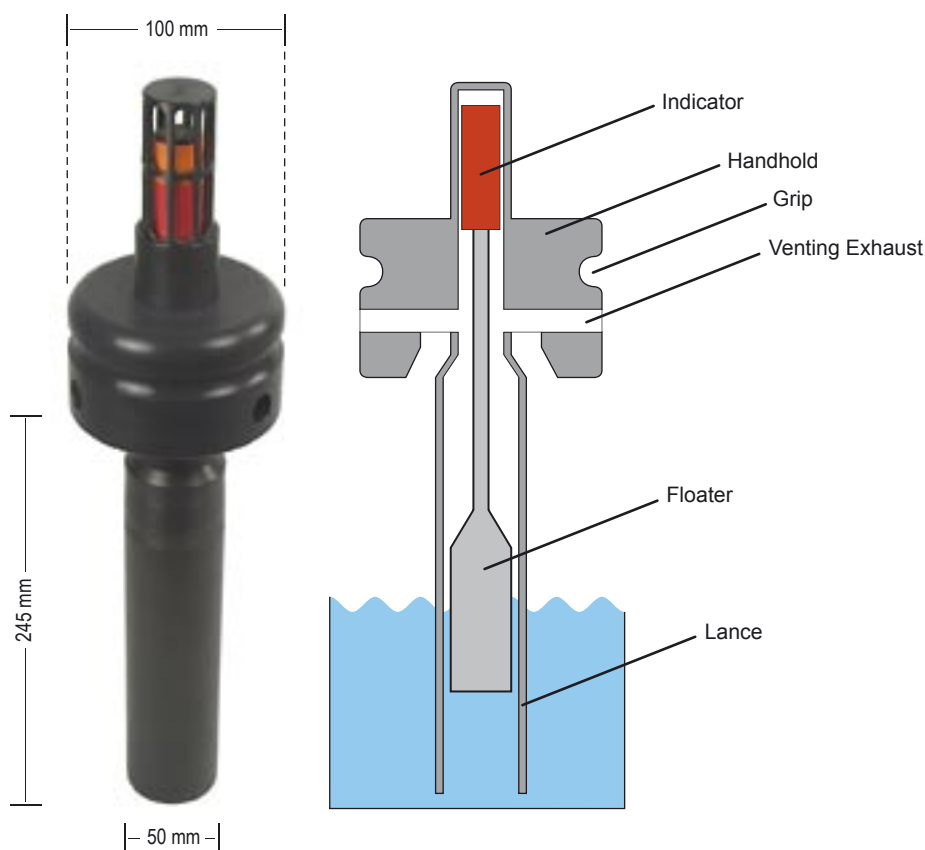
Level Control for Barrel Filling



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



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



The stainless steel sieve offers:

- additional splash guard
- filter for your magnetic stirrers



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 |
| NEW 107044 | PTFE-Fitting with integrated Ferrule ID = 6.35mm (1/4") | Box of 1 |
| NEW 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)




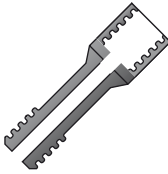

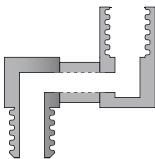

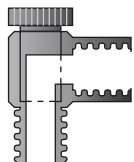
Air filters can simply be fixed on the air valve. Keeps the venting air clean, avoids dust contamination of solvents.

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

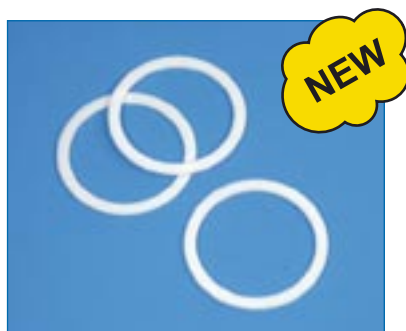
Joint Adapters for Exhaust Filters



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 (can be joined with any other adapter) | 107621 |
|  |  | Angle Adapter (fixed) (can be joined with any other adapter) | 107622 |
|  |  | Angle Adapter (can be joined with any other adapter) | 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



Adapters for other thread sizes available (on request) !

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 |



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.

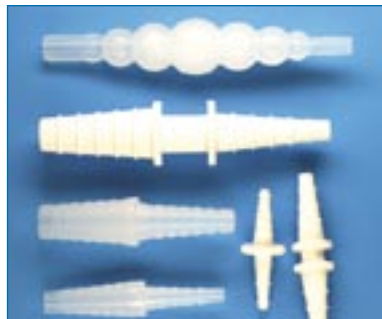
Y-Connectors (Polypropylene)



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 |
| NEW 108042 (see page 30) | 10 L | PE-HD (conductive) with level floater | 380 x 280 x 420 |
| NEW 108043 (see page 30) | 20 L | PE-HD (conductive) with level floater | 298 x 198 x 518 |
| NEW 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 |



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 |



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



The Safety Specialist.

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