

Safety can be reordered!

We have developed a lot of accessories which help you to work quickly, safely and economically. All products are specially modulated to the SCAT safety system. Our accessories are of high quality and proven in practice.

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новыйорск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

<https://scat.nt-rt.ru/> || sqt@nt-rt.ru

Accessory

Adapt the system to your requirements!

- ✓ All suitable with the SCAT System
- ✓ Consumables as Reserve Packs
- ✓ Adapter for all purposes
- ✓ Special Tools



Expendable Valves and Filters must be Exchanged in Time!

Never miss an exchange again with the practical exchange indicators.

The SCAT System protects you from solvent vapours and keeps your HPLC System clean. Air valves and exhaust filters continually block the passage of vapour and dirt. When a filter becomes saturated, it can no longer adsorb further particles. So regularly exchange filters and valves - for optimum safety!

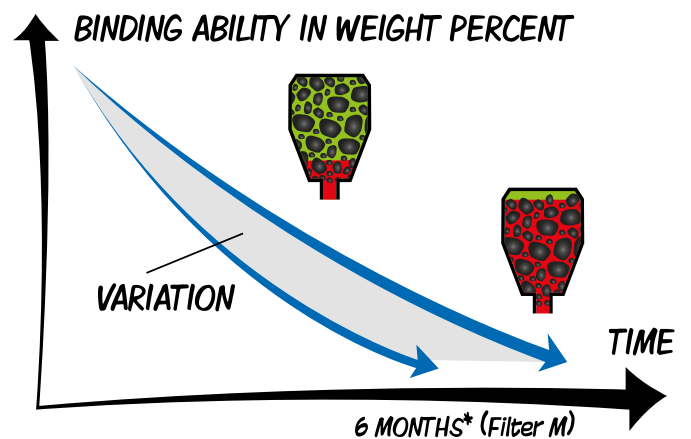
Valve exchange for trouble-free HPLC operation!

The air ventilation valve is constructed for a maximum lifetime, when used with HPLC. The actual lifetime achieved is also dependent upon the nature of the solvents used, the surrounding air, the temperature and flowrate. As these factors can vary considerably, we recommend an exchange every 6 Months, in order to ensure for problem-free operation.



Expendable filters.

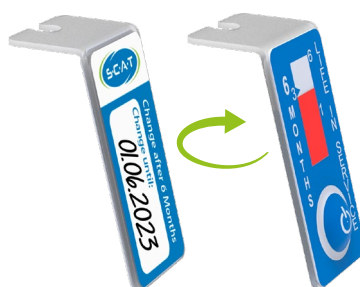
The exhaust filter is optimized for the adsorption of solvent vapours from eluents, as typically used for HPLC. The actual lifetime of the filter is also dependent upon the composition of the waste material being produced, its temperature and flowrate. These factors can vary considerably from customer to customer, and/or according to the nature of the application. In order to be on the safe side, we recommend an exchange every 3 (S); 6 (M); 12 (L) Months*, for optimum protection.



*Operational lifetime with typical HPLC flowrates of 1.5 - 4.0 ml per minute.

Consumables

Ordering Informations



Clever! Simply turn it around and use the Labelling Field.

Would you like to note down the expiry date of your valve? No problem - simply turn the clip around and use the labelling field.

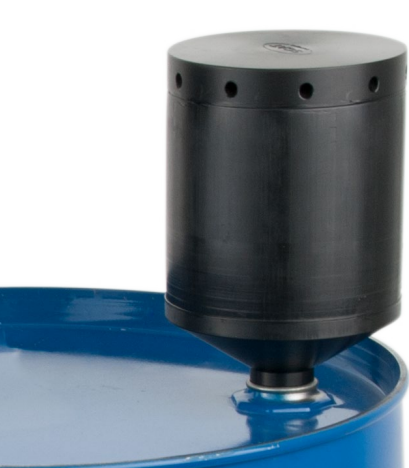
Fig.	Part No.	Description	Thread	Unit	Operational Lifetime
A	317 010	Air ventilation valve, for Safety Caps, with exchange clip	UNF 1/4" 28G	1	6 Months
	397 008	Air ventilation valves, Reserve Pack (8 pcs.)	UNF 1/4" 28G	8	8x 6 Months
	397 010	Air ventilation valves, Reserve Pack (10 pcs.)	UNF 1/4" 28G	10	10x 6 Months
	397 050	Air ventilation valves, Reserve Pack (50 pcs.)	UNF 1/4" 28G	50	50x 6 Months
	397 100	Air ventilation valves, Reserve Pack (100 pcs.)	UNF 1/4" 28G	100	100x 6 Months



Fig.	Part No.	Description	Thread	Unit	Operational Lifetime
	410 534	Exhaust Filter S, V3.0, with splash protection and change indicator	GL 14	1	3 Months
B	490 335	Exhaust Filter S, V3.0, with splash protection and change indicator	GL 14	4	4x 3 Months
	407 982	Exhaust Filter M, V3.0, with splash protection and change label	GL 14	1	6 Months
	410 535	Exhaust Filter M, V3.0, with splash protection and change indicator	GL 14	1	6 Months
C	490 336	Exhaust Filter M, V3.0, with splash protection and change indicator	GL 14	2	2x 6 Months
	490 914	Exhaust Filter M, V3.0, with splash protection and change label	GL 14	2	2x 6 Months
D	407 986	Exhaust Filter L, V3.0, with splash protection and change indicator	GL 14	1	12 Months
	490 986	Exhaust Filter L, V3.0, with splash protection and change indicator	GL 14	2	2x 12 Months
	407 983	Exhaust Filter L, V3.0, with splash protection and change label	GL 14	1	12 Months
	490 915	Exhaust Filter L, V3.0, with splash protection and change label	GL 14	2	2x 12 Months



Fig.	Part No.	Size	Thread	Unit	Op. Lifetime
E	108 985	XL	G 3/4"	1	6 Months
F	108 986	XXL	BCS 70x6	1	12 Months
	108 987	XXL	R2" BSP/G2" (m) + BCS 56x4 (m)	1	12 Months



Adapters for Exhaust Filter Connections

Space problems? Offset adapter!

Space problem in the lab or on small Safety Waste Caps? Not an issue – attach the exhaust air filter to the waste containers in any position. Practical, space-saving and flexible. With the extension **A**, you can create more freedom of movement when attaching tubes. The adapters **A B C D** can be combined with each other.



Usage with other systems!

You are already using a system e.g. from VICI or Phenomenex? This adapter allows you to use SCAT exhaust filters.



G

A 107 621



B 107 624



C 107 627



D 107 622



Adapter UNF 1/4"-28G to GL 14

Blind plug

E 107 620

- Simply closes the exhaust air connection when not in use



F 107 632

- Connectivity for HPLC capillaries to the exhaust air connection



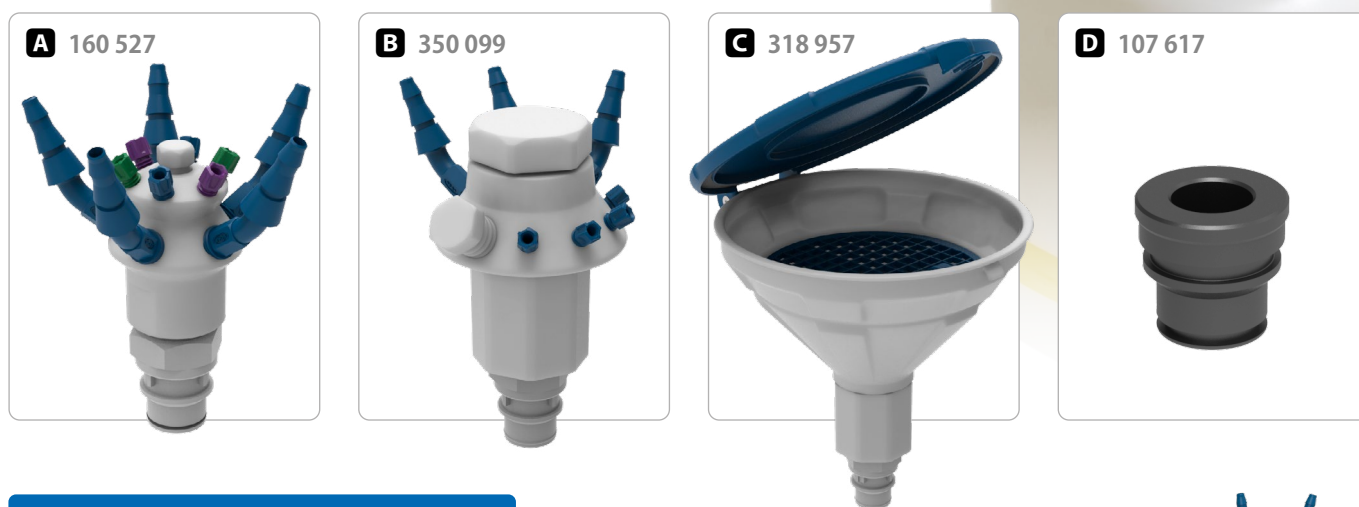
Fig.	Part No.	Description	Thread 1	Thread 2	Material
A	107 621	Offset adapter, extension for exhaust filter, GL 14 (f) to GL 14 (m)	GL 14 (f)	GL 14 (m)	PE-HD-EL
B	107 624	Offset adapter 90°, for exhaust filter, GL 14 (f) to GL14 (m)	GL 14 (f)	GL 14 (m)	PE-HD-EL
C	107 627	Offset adapter 45°, for exhaust filter, GL 14 (f) to GL14 (m)	GL 14 (f)	GL 14 (m)	PE-HD-EL
D	107 622	Offset adapter 90°, long, for exhaust filter, GL 14 (f) to GL 14 (m)	GL 14 (f)	GL 14 (m)	PE-HD-EL
E	107 620	Blind plug for the exhaust filter connection	GL 14 (m)	-	PTFE
F	107 632	Adapter capillary connection to exhaust filter connection	GL 14 (m)	UNF 1/4" 28G (f)	PTFE
G	108 181	Exhaust filter adapter, suitable for connecting a SCAT exhaust filter on a Waste Cap of third party manufacturers (e.g. Vici)	GL 14 (f)	UNF 1/4" 28G (m)	PE-HD

Adapter for JUSTRITE® Containers

SCAT Europe Waste Systems fit on Containers of JUSTRITE®

Proven SCAT Europe safety at JUSTRITE® containers.
Suitable adapters and CPC®- couplings.

For quick couplings made of plastic



For quick couplings made of stainless steel



Fig.	Part No.	Description	Capillary connections	Tube connections	Connection for Exhaust Filter	Material	Unit
	107 628	4-way-collector for plastic coupling	3x	1x	-	PTFE / PFA /PP	1
A	160 527	12-way-collector for plastic coupling	6x	6x	-	PP	1
B	350 099	LISA for plastic coupling	4x	3x	1x	PTFE	1
C	318 957	MARCO for plastic coupling	-	-	-	PE-HD	1
D	107 617	Adapter SCAT Exhaust Filter to plastic coupling	-	-	1x	PE-HD-EL	1
E	160 524	12-way-collector for steel coupling	6x	6x	-	PTFE-EL / stainless steel	1
F	107 631	4-way-collector for steel coupling	3x	1x	-	PTFE	1
G	107 610	Adapter SCAT Exhaust Filter to steel coupling	-	-	1x	PE-HD-EL	1

Capillary Connection of Safety Caps and Safety Waste Caps Fittings, Blind Plugs, Connectors



Fig.	Part No.	Description	Capillary Size Ø OD	Material	Colour	Unit
A	107 061	Fitting for capillary connection	1.6 mm	PFA	Green	5
B	107 059	Fitting for capillary connection	2.3 mm	PFA	Violet	5
C	107 063	Fitting for capillary connection	3.2 mm	PFA	Blue	5
D	160 501	Blind plug for capillary connection	-	PFA	Colourless	10
	160 502	Blind plug for capillary connection	-	PFA	Colourless	5
E	107 041	Fitting for capillary connection	1.6 mm	PTFE	White	10
F	107 042	Fitting for capillary connection	2.3 mm	PTFE	White	10
G	107 043	Fitting for capillary connection	3.2 mm	PTFE	White	10
H	160 145	Capillary connector	1.6 / 2.3 / 3.2 mm	PTFE/PFA	White/Blue	1
I	160 134	2-in-1 Connector for capillaries	3.2 mm	PTFE/PFA	White/Blue	1

Fig.	Part No.	Description	For Tube Diameter Ø ID	Material	Colour	Unit
J	117 816	Tube Connector, straight	6 - 8 mm ID	PP	Colourless	1

Capillary Connection - Safety Caps - Preparative HPLC Fittings, Blind Plugs

A 107 045



For Safety Cap:

- 308 032
- 309 032
- 310 032

■ Ø 4.76 mm (UNF 5/16")

B 160 503



For Safety Cap:

- 308 032
- 309 032
- 310 032

■ Blind plug (UNF 5/16")

C 107 044



For Safety Cap:

- 307 007
- 307 008
- 307 009

■ Ø 6.35 mm (NPT 1/8")

D 160 506

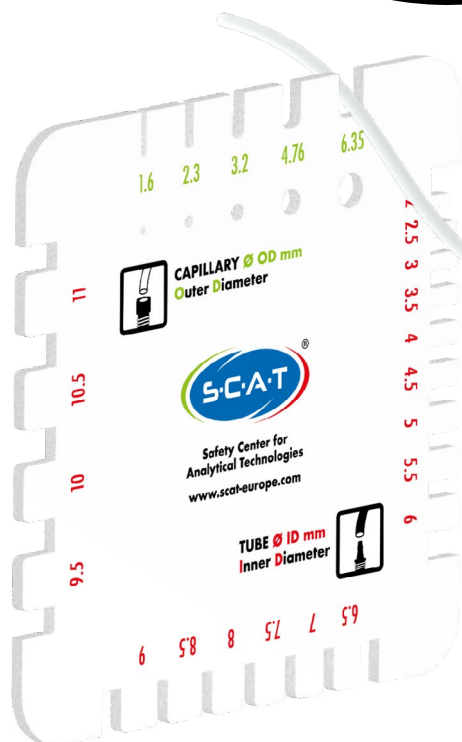


For Safety Cap:

- 307 007
- 307 008
- 307 009

■ Blind plug (NPT 1/8")

TOOL TIME!



Good to know!

With the **SCAT measuring template**, you can easily determine the outside diameter of capillaries and the inside diameter of tubes.

This tool helps you to find the right fittings and tube connectors for your system.

See **page 169** for ordering information.

Fig.	Part No.	Description	Capillary Size Ø OD	Thread	Material	Colour	Unit
	107 047	Fitting for preparative HPLC	4.0 mm	UNF 5/16"	PTFE	White	1
A	107 045	Fitting for preparative HPLC	4.76 mm	UNF 5/16"	PTFE	White	1
B	160 503	Blind Plug for preparative HPLC	-	UNF 5/16"	PTFE	White	10
	160 515	Blind Plug for preparative HPLC	-	UNF 5/16"	PTFE	White	5
	107 046	Fitting for preparative HPLC	6.0 mm	NPT 1/8"	PTFE	White	1
C	107 044	Fitting for preparative HPLC	6.35 mm	NPT 1/8"	PTFE	White	1
D	160 506	Blind Plug for tube connection	-	NPT 1/8"	PTFE	White	1

Accessory for the Tube Connection

Tube Connectors



Images A - K are of scale 1:1.

Just add the tube and determine the suitable connector.

Fig.	Part No.	Description	For Tube Diameter	Material	Unit
A	117 808	Stepped Tube Connector, curved	5 - 11,5 mm ID	PP	1
B	160 143	Tube Connector, curved	6,4 - 8 mm ID	PTFE	1
C	160 142	Tube Connector, straight	6,4 - 8 mm ID	PTFE	1
D	107 811	Tube Connector, straight	2 - 3 mm ID	PP	1
E	107 812	Tube Connector, straight	3 - 4 mm ID	PP	1
F	107 813	Tube Connector, straight	4 - 6 mm ID	PP	1
G	107 814	Tube Connector, straight	5 - 7 mm ID	PP	1
H	107 816	Tube Connector, straight	6,2 - 7,5 mm ID	PP	1
I	107 817	Tube Connector, straight	9,5 - 10 mm ID	PP	1
J	107 808	Tube Connector, angled	6,4 - 8 mm ID	PP	1
K	107 810	Tube Connector, angled	9,5 - 10 mm ID	PP	1

Accessory for the Tube Connection Adapters

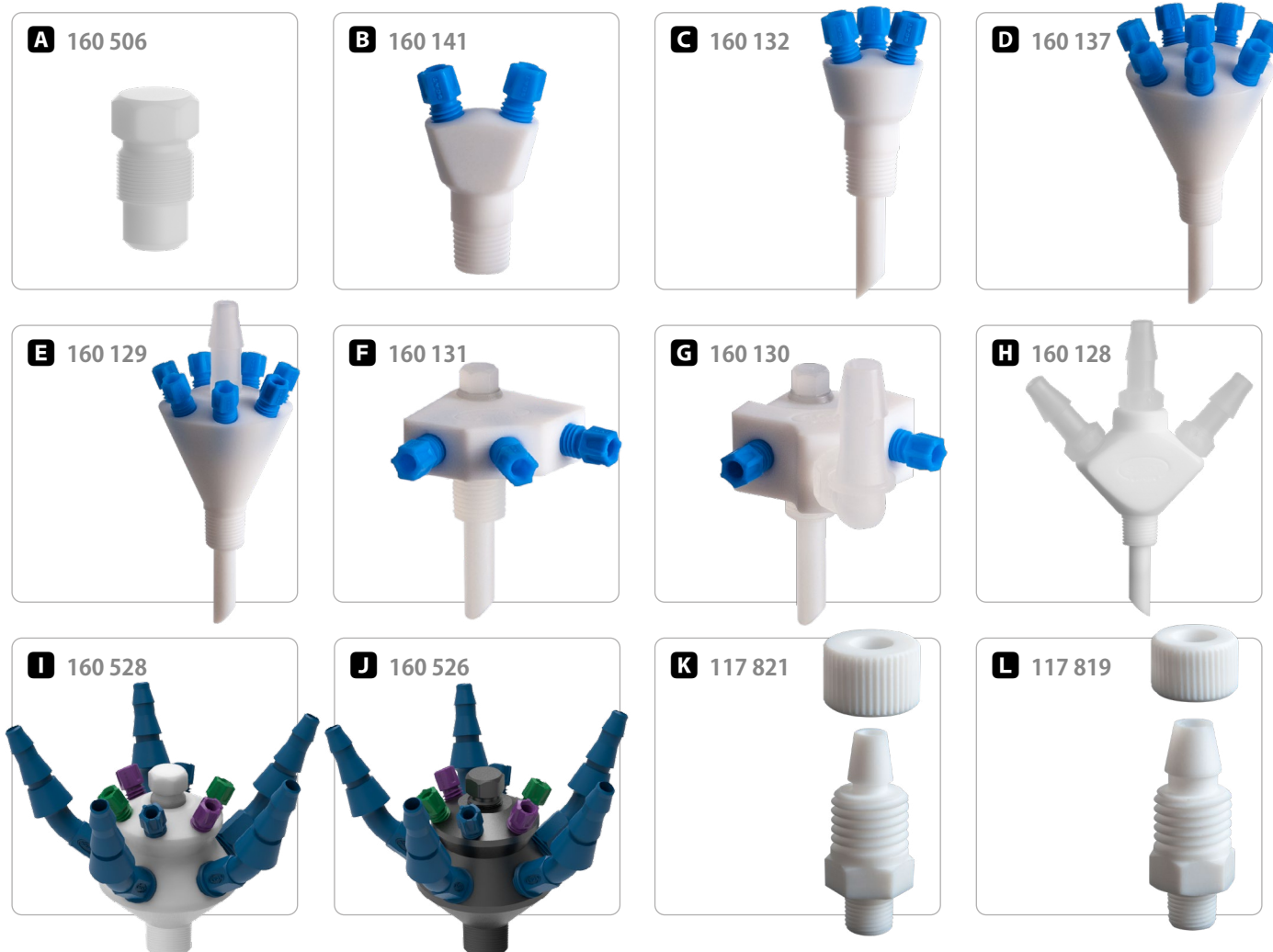


Fig.	Part No.	Description	For Tube Diameter (Scope of Delivery)		Material	Unit
A	160 506	Blind Plug for tube connection	-	-	PTFE	1
B	160 141	2-in-1 Collector	2.3 / 3.2 mm OD (2x)	-	PTFE / PFA	1
C	160 132	3-in-1 Collector	2.3 / 3.2 mm OD (3x)	-	PTFE / PFA	1
D	160 137	8-in-1 Collector	2.3 / 3.2 mm OD (8x)	-	PTFE / PFA	1
E	160 129	8-in-1 Collector	2.3 / 3.2 mm OD (7x)	6 - 8 mm ID (1x)	PTFE / PFA / PP	1
F	160 131	3-in-1 Collector, sideways	2.3 / 3.2 mm OD (3x)	-	PTFE / PFA / PP	1
G	160 130	3-in-1 Collector, sideways	2.3 / 3.2 mm OD (2x)	6,4 - 8 mm ID (1x)	PTFE / PFA / PP	1
	160 139	2-in-1 Collector, sideways	-	6,4 - 8 mm ID (2x)	PTFE / PP	1
	160 138	3-in-1 Collector, sideways	-	6,4 - 8 mm ID (3x)	PTFE / PP	1
H	160 128	3-in-1 Collector, straight	-	6,2 - 7,5 mm ID (3x)	PTFE / PP	1
I	160 528	12-in-1 Collector	1.6 / 2.3 / 3.2 mm OD (6x)	5,0 - 11,5 mm (6x)	PTFE	1
J	160 526	12-in-1 Collector	1.6 / 2.3 / 3.2 mm OD (6x)	5,0 - 11,5 mm (6x)	PTFE-EL	1
K	117 821	Tube Connector, straight, + sealing	-	6,5 mm ID	PTFE	1
L	117 819	Tube Connector, straight, + sealing	-	8 mm ID	PTFE	1

Further Systems Collector

3-in-1 collector for t-piece

The collector locks the open T-piece of the HPLC system gastight and avoids the leakage of harmful vapours. Collector, tube-piece and 3x Fittings for capillaries with \varnothing 1.6 mm outer diameter are included in the scope of delivery.



Capillaries and tools.

Suitable capillaries and tools you will find on **page 168**.



Good to know!

The "3-in-1 Collector for T-piece" is suitable for systems of the type: **VWR-Hitachi Chromaster**

Fig.	Part No.	Description	Unit
A	199 010	3-in-1 collector for t-piece incl. tube-piece and 3x fittings for capillaries with \varnothing 1.6 mm OD	1

Adapter Access to Containers during running Operation

Direct access to your containers

With this adapter, connecting each ND9 short thread cap of your sample bottles with the SCAT safety system is easy. This way you have access to the contents of your supply and waste containers even during ongoing operations, without evaporation or contamination.



Fig.	Part No.	Description	Material	Unit
A	160 146	Adapter for septum caps with short thread ND9	PTFE	1



Luer adapter

B 160 191



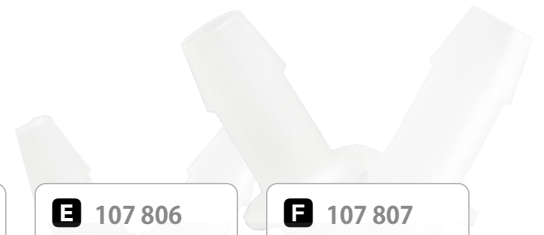
Good to know!

With the Luer Adapter, you can easily add or remove liquids without opening the cap. Suitable for the use of Safety Caps with a shut-off valve, see [page 47](#).



Abb.	Part No.	Description	Material	Unit
B	160 191	Luer adapter for the capillary connector	PP	1

Tube Connectors To put On

**A** 107 801**B** 107 802**C** 107 803**D** 107 804**E** 107 806**F** 107 807**G** 107 825**H** 107 824**I** 107 823**J** 107 822**K** 107 821**L** 107 820**M** 107 826

Good to know!

Illustrations
A - M
are of **scale 1:1**

Simply put on
the tube and
find the right
connector.

Fig.	Part No.	Description	Diameter		Material	Unit
A	107 801	Y-connector	3 mm		PP	1
B	107 802	Y-connector	4 mm		PP	1
C	107 803	Y-connector	5 mm		PP	1
D	107 804	Y-connector	6 mm		PP	1
E	107 806	Y-connector	9 mm		PP	1
F	107 807	Y-connector	11 mm		PP	1
G	107 825	Conical connector	3 - 5 mm	3 - 5 mm	PP	1
H	107 824	Conical connector	4 - 8 mm	4 - 8 mm	PP	1
I	107 823	Conical connector	7 - 10 mm	7 - 10 mm	PP	1
J	107 822	Conical connector	4 - 8 mm	8 - 12 mm	PP	1
K	107 821	Conical connector	4 - 8 mm	12 - 16 mm	PP	1
L	107 820	Conical connector	8 - 12 mm	12 - 16 mm	PP	1
M	107 826	Connector, spherical	5 - 16 mm	7.5 - 16 mm	PP	1

Tube Connectors

Quick-Lock Connectors

With one "click"!

The Quick-Lock Connectors allow safe and quick connection of tubing and make bottle changes even easier. The bottles are rapidly disconnected with a single "click" and can be refilled at a safe location.

Thanks to the integrated valve function, the closed safety system is maintained even when a tube is disconnected.

The practical CPC quick lock connectors can be used for all SCAT safety systems.

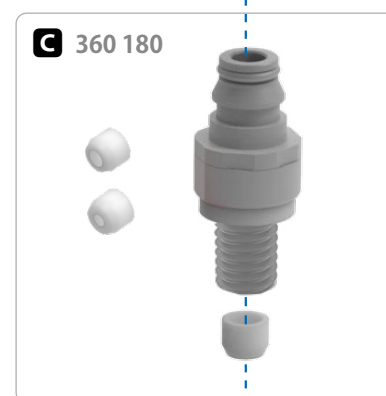


Fig.	Part No.	Description	Capillary Diameter	Material	Unit
A	360 190	Quick-Lock connector (m)	1.6 mm, 2.3 mm, 3.2 mm OD, works with 360 179	PP	1
B	360 179	Quick-Lock connector (f)	1.6 mm, 2.3 mm, 3.2 mm OD, works with 360 190 and 360 180	PP	1
C	360 180	Quick-Lock Connector (m) for screwing into the standard connectors of Safety Caps (UNF 1/4" 28G)	1.6 mm, 2.3 mm, 3.2 mm OD, works with 360 179	PP	1
	360 189	Quick-Lock Connector Set I contains 360 190 (A) and 360 179 (B)	1.6 mm, 2.3 mm, 3.2 mm OD	PP	1
	360 183	Quick-Lock Connector Set II contains 360 179 (B) and 360 180 (C)	1.6 mm, 2.3 mm, 3.2 mm OD	PP	1

Thread Adapter for Containers

If it doesn't fit - we'll make it fit.

Our numerous thread adapters are well-proven assistants through the daily working routine in laboratory and production.



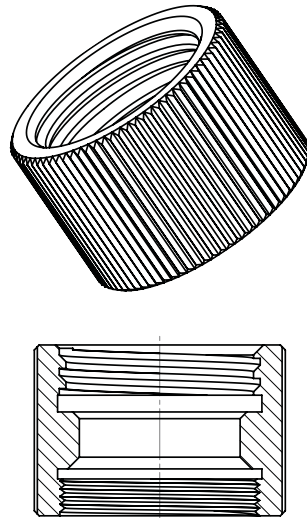
Online configurator!

You can easily find the right adapter using the configurator at www.scat-europe.com. Products > Accessories > Thread adapter. Or simply scan the QR code.

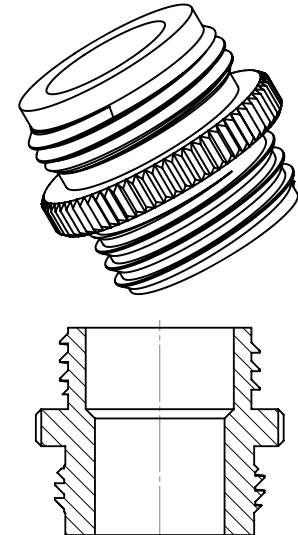
FILTER

Main material	▼	Electrostatic conductive plastic	▼
Thread size	▼	Thread on top	▼
Thread bottom	▼		

A Internal Thread (f)

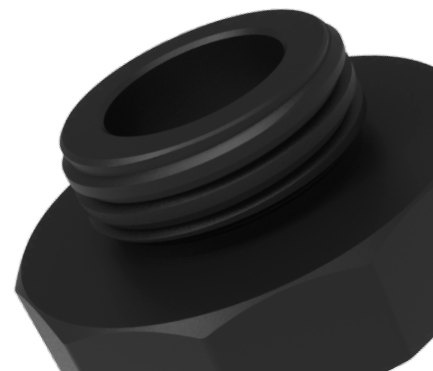
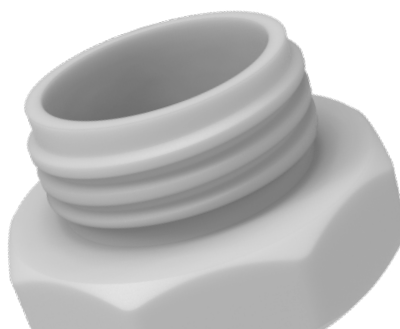
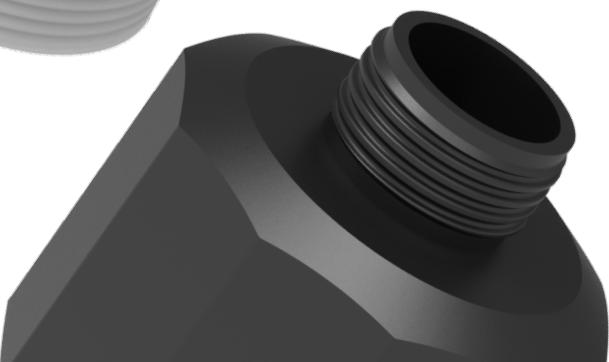


B External Thread (m)



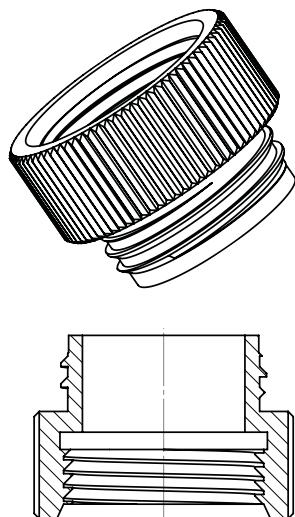
Typ	Part No.	Thread 1	Thread 2	Material	Colour
A	107 024	S 55 (f)	R 2" fine (f)	PP	Green
A	107 023	S 60/61 (f)	R 2" fine (f)	PP	Yellow
A	108 444	63 mm ASTM (f)	R 2" fine (f)	PP	White
A	107 025	S 70/71 (f)	R 2" fine (f)	PP	Brown

Typ	Part No.	Thread 1	Thread 2	Material	Colour
B	107 014	GL 45 (m)	R 2" BSP (m)	PP	Colourless
B	107 016	GL 45 (m)	R 2" BSP (m)	PTFE	White
B	107 015	GL 45 (m)	2" Tri-Sure (m)	PP	Colourless
B	107 017	GL 45 (m)	2" Tri-Sure (m)	PTFE	White
B	108 022	S 60/61 (m)	2" BSP (m)	PP	Black
B	108 029	S 60/61 (m)	2" Tri-Sure (m)	PP	Colourless



Thread Adapter for Containers

C Internal/external thread (f/m)



C 108 058

The angled-adapter for canisters.

Compensates for sloping canister openings. Place laboratory bottles simply and safely on the sieve of the funnel and let them drain.



Typ	Part No.	Thread 1	Thread 2	Material	Colour
C	108 060	S 40 (m)	GL 45 (f)	PTFE	White
C	107 996	GL 45 (m)	GL 32 (f)	PP	Colourless
C	107 993	GL 45 (m)	GL 32 (f)	PTFE	White
C	107 995	GL 45 (m)	GL 38 (f)	PP	Colourless
C	107 992	GL 45 (m)	GL 38 (f)	PTFE	White
C	107 994	GL 45 (m)	S40 / GL 40 (f)	PP	Colourless
C	107 991	GL 45 (m)	S40 / GL 40 (f)	PTFE	White
C	107 093	GL 45 (m)	S 51 (f)	PP	Colourless
C	107 099	GL 45 (m)	S 55 (f)	PP	Colourless
C	107 090	GL 45 (m)	S 60/61 (f)	PP	Colourless
C	107 079	GL 45 (m)	S 70/71 (f)	PP	Colourless
C	117 030	GL 45 (m)	38 / 430	PTFE	White
C	107 028	GL 45 (m)	R 1 1/2" (f)	PP	Colourless
C	107 080	S 51 (m)	S 47 x 4 (f)	PP	Colourless
C	107 092	S 51 (m)	S 55 (f)	PP	Colourless
C	107 086	S 51 (m)	S 60/61 (f)	PP	Colourless
C	107 078	S 55 (m)	S40 / GL 40 (f)	PP	Colourless
C	117 091	S 55 (m)	S40 / GL 40 (f)	PTFE	White
C	107 084	S 55 (m)	S 50 (f)	PTFE	Colourless
C	107 095	S 55 (m)	S 51 (f)	PP	Colourless
C	117 095	S 55 (m)	S 51 (f)	PTFE	White
C	107 094	S 55 (m)	GL 45 (f)	PP	Colourless
C	117 094	S 55 (m)	GL 45 (f)	PTFE	White
C	107 089	S 55 (m)	S 60/61 (f)	PP	Colourless
C	108 058	S 60/61 (m) angled	S 60/61 (f)	PE-HD-EL	Black
C	108 145	S 60/61 (m)	S 50 (f)	PE-HD-EL	Black
C	107 097	S 60/61 (m)	S 51 (f)	PTFE	Colourless
C	108 146	S 60/61 (m)	S 51 (f)	PE-HD-EL	Black
C	107 096	S 60/61 (m)	S 55 (f)	PP	Colourless
C	108 021	S 60/61 (m)	2" BSP (f)	PP	Grey
C	107 091	S 60/61 (m)	B 63 (f)	PP	Colourless
C	107 074	S 60/61 (m)	S 65 (f)	PP	Colourless
C	107 026	S 60/61 (m)	R 3" Schütz coarse (f)	PP	Grey
C	107 027	S 60/61 (m)	R 3" Werit fine (f)	PP	Colourless
C	107 088	S 65 (m)	63 mm ASTM (f)	PP	Colourless
C	108 147	S 60/61 (m)	S 71 (f)	PE-HD-EL	Black
C	107 018	S 90 (m)	S 100 / BB 70 (f)/MIR	PE-HD	Colourless
C	107 085	R 1 1/2" (m)	GL 45 (f)	PP	Colourless
C	107 021	BCS 70x6 (m)	R 2" fine (f)	PP	Blue
C	107 022	BCS 56x4 (m)	R 2" fine (f)	PP	Orange

Erdung Grounding Cables

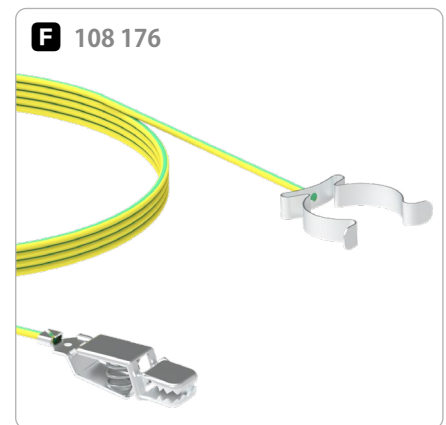
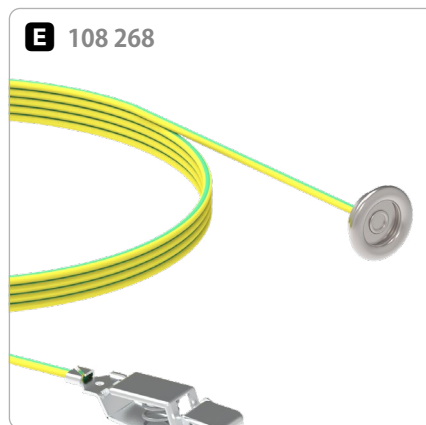
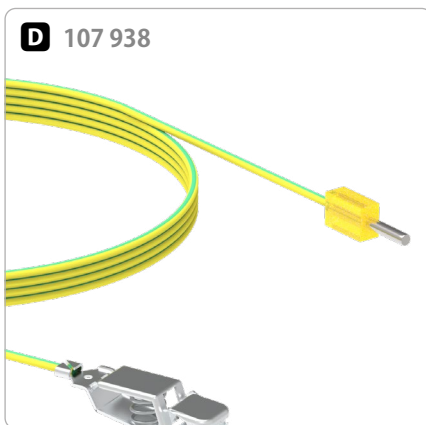
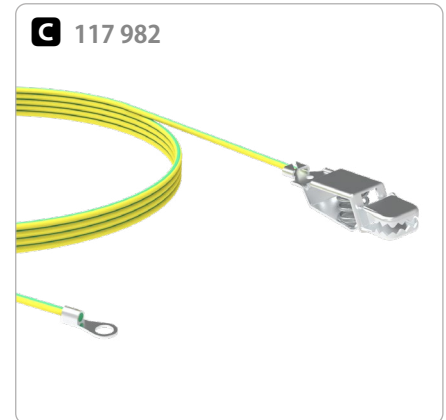
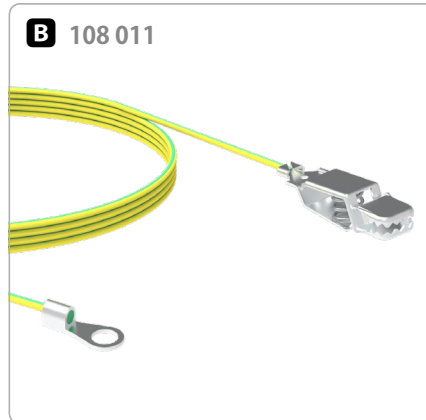
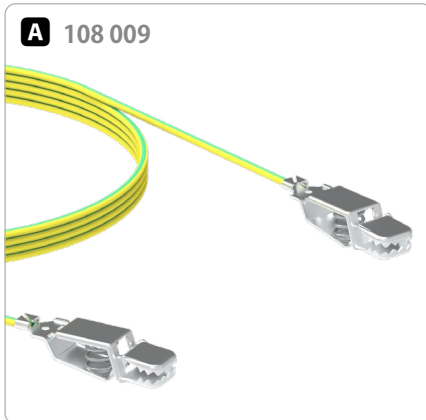


Abb.	Part No.	Description	Assembling	Length
A	108 009	Grounding cable	2 clamps	1.5 m
B	108 011	Grounding cable	1 clamp, 1 connection ring (Ø 10 mm)	1.5 m
C	117 982	Grounding cable	1 clamp, 1 connection ring (Ø 5 mm)	1.5 m
D	107 938	Grounding cable	1 clamp, 1 plug for Safety Waste Cap ground connection	1.5 m
	108 294	Grounding cable	1 clamp, 1 MC connector 90 degrees angled	1.5 m
	108 093	Grounding cable	Spiral grounding cable (1 Megaohm) with 10 mm press stud connector	1.8 m
E	108 268	Grounding cable	1 clamp, 1 press stud connector (Ø 10 mm)	2.0 m
F	108 176	Grounding cable	1 clamp, 1 grounding clip for Ø 32 mm pipe, suitable for SymLine pipe system, incl. mounting material	3.0 m

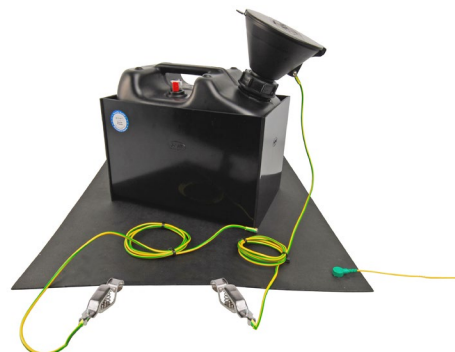
Abb.	Part No.	Description	Unit
G	108 092	EU earthing plug for isolated ground receptacle, 1x press stud connector, 2x 10 mm connector	1
	108 281	UK earthing plug for isolated ground receptacle, 1x press stud connector, 2x 10 mm connector	1
H	108 099	Anti-static mat, conductive. With grounding cable (press stud connector). Dimensions: 610 x 1220 x 3 mm	1
I	108 096	Ground strap for canisters with S 90 thread (108 420), incl. ground cable with clamp. Material: Stainless steel	1

Grounding Grounding Accessory

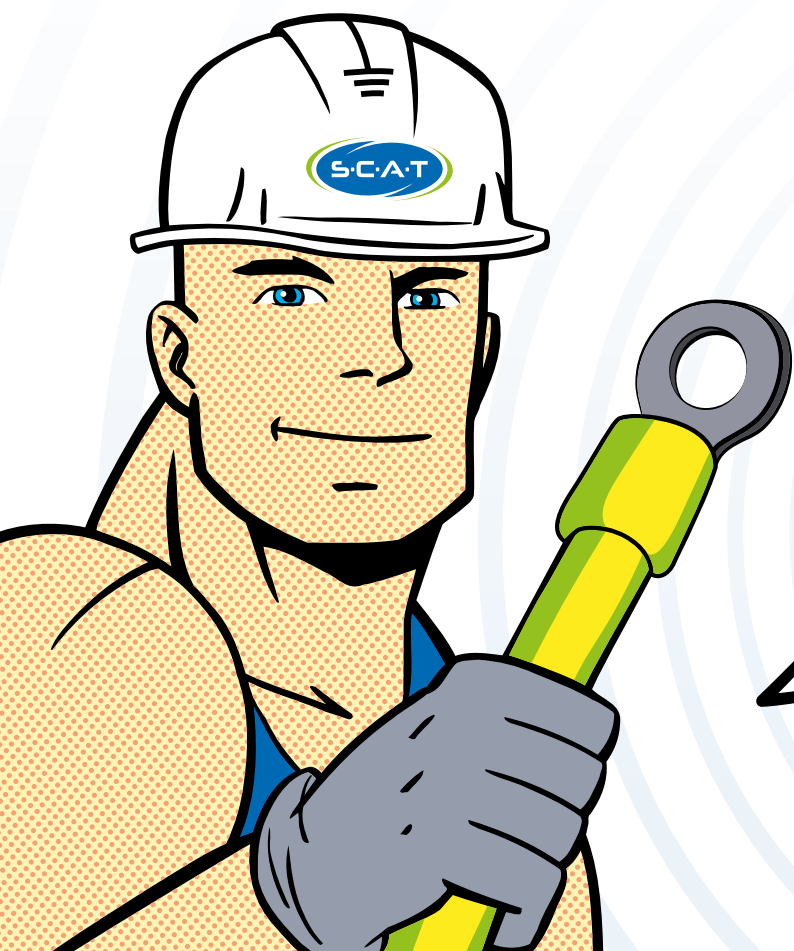
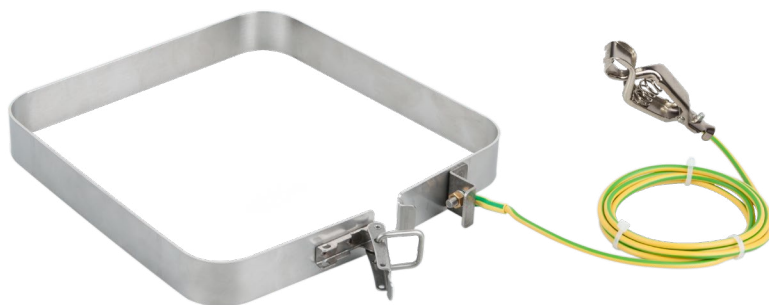
G 108 092



H 108 099



I 108 096



Tubes and Capillaries

A 108 015



B 108 018



C 108 017



D 108 016



Fig.	Part No.	Description	Diameter	Material	Length
A	108 015	Conductive plastic tube, flexible (spiral)	∅ ID = 9 mm, ∅ OD = 13 mm	PFA	1 m
	108 019	Conductive plastic tube, smooth	∅ ID = 10 mm, ∅ OD = 12 mm	PTFE	1 m
B	108 018	Conductive plastic tube, smooth	∅ ID = 8 mm, ∅ OD = 10 mm	PTFE	1 m
C	108 017	Conductive plastic tube, smooth	∅ ID = 6 mm, ∅ OD = 8 mm	PTFE	1 m
D	108 016	Conductive plastic tube, smooth	∅ ID = 4 mm, ∅ OD = 6 mm	PTFE	1 m

E 461 056



F 461 055



G 461 054



H 461 053



Fig.	Part No.	Description	Material	Length
E	461 056	Corrugated tube, for leak connection of various HPLC systems, ∅ ID = 6.5 mm	PP	1 m
F	461 055	Capillary, ∅ OD = 3.2 mm, ∅ ID = 1.6 mm	PTFE	3 m
G	461 054	Capillary, ∅ OD = 2.3 mm, ∅ ID = 1.7 mm	PTFE	3 m
H	461 053	Capillary, ∅ OD = 1.6 mm, ∅ ID = 1.0 mm	PTFE	3 m
	461 065	Capillary, ∅ OD = 4.76 mm, ∅ ID = 3.76 mm	PTFE	3 m
	461 066	Capillary, ∅ OD = 6.35 mm, ∅ ID = 4.75 mm	PTFE	3 m

Capillaries Suction Filter and Tools

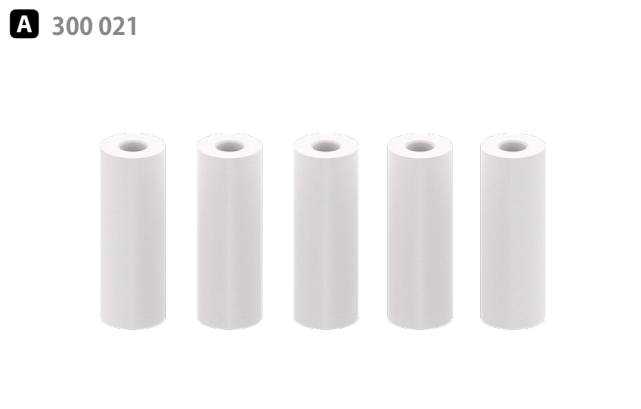


Fig.	Part No.	Description	Unit
A	300 021	Suction filter HPLC solvent filter UHMW-PE, for \varnothing 1/8" (\varnothing 3.2 mm OD) pore size 20 μ m	5
	300 022	Suction filter HPLC solvent filter PFA/PTFE, for \varnothing 1/8" (\varnothing 3.2 mm OD) pore size 5 μ m	5

Special tools

Measuring template, installation wrench for fittings and capillary cutter incl. replacement blade.

Fittings and capillaries are not included in the scope of delivery.

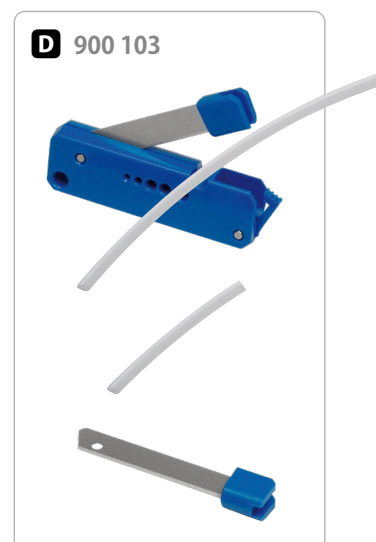
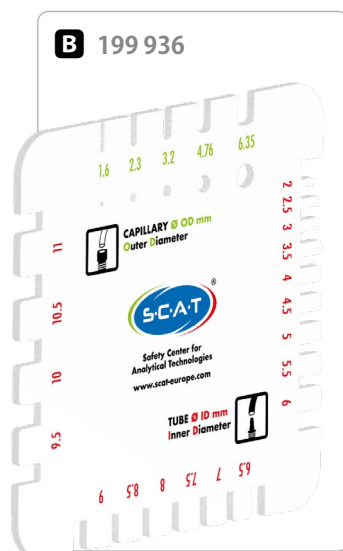


Fig.	Part No.	Description	Material	Colour
B	199 936	SCAT measuring template for capillaries & tubes	Hard PVC	White
C	160 500	Installation wrench, hexagonal (for PFA fittings)	Aluminium	Aluminium
D	900 103	CleanCut capillary cutter including replacement blade	PP, Stainless steel	Blue

BE WELL INFORMED...



...AND NOTHING
CAN GO
WRONG!

More Helpful Informations about our Products.

What should you consider when using our products? What type of thread should your new SCAT component have? Be guided by our tables, symbols and other useful tips.

Thread Identification

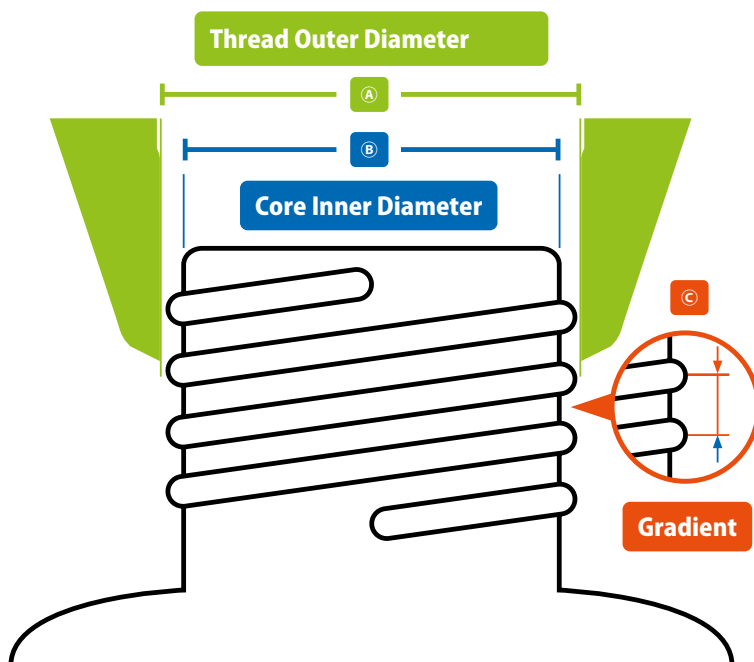
Container Threads

Container threads

SCAT Safety Caps are available for a wide variety of differing container threads. On the following pages you will find tables for determining thread sizes, together with a helpful overview of typical thread types. It is best to use a slide gauge.

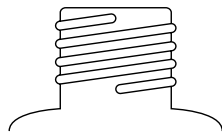
Instruction, identification of threads

Use the measured distances below to determine the outer diameter of the thread (A) or the core inner diameter of the container opening (B).



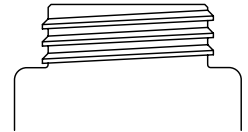
Round Thread, Example:

- Bottle thread (GL or GLS)
- Common standard for laboratory bottles



Saw Thread, Example:

- Canisters (S-Thread)
- Nalgene containers
- Barrels (Mauser, Trisure, BCS-Threads)
- GPI Standard (Glass Packaging Institute)
- Other plastic containers



Note: All the measurements and values given here can vary up to 0.5 mm, dependent upon the manufacturer involved (due to manufacturing tolerances). Brand names and trademarks are the property of the respective owners. The brand names and protected trademarks mentioned here are simply of descriptive nature.

Ø A Thread Outer Diameter		Ø B Core Diameter	© Gradient			
mm max.	mm min.	mm max.	in mm	Norm	Thread	Norm Thread Comments (also re. brand names, trademarks)
28.00	27.50	25.98	3.00	DIN 168-1	GL 28	Chromsystems®, Recipe®, 500 ml Buffer from Sigma®
32.00	31.30	29.30	4.00	DIN 168-1	GL 32 (glass)	For containers of the brand Duran®
32.00	31.50	29.00	3.00		S 32 (plastic)	-
37.49	36.88	35.10	4.23	GPI / SPI	GL 38/ GPI 38-400 (glass) (short)	For containers of the brands Wheaton® and Nalgene®
38.00	37.50	35.00	3.00	DIN 6063-2	GL 38 short (foldable canister)	4 L BDH bottle, Fulltime® Reagents
38.00	37.50	35.00	3.00	DIN 6063-1	S 38 (plastic)	2.5 L canister from Recipe®, HPLC-P Water, 1 litre Biosolve®, Fresenius Kabi® 10 L
37.49	36.88	35.10	4.23	GPI / SPI	GPI 38-430 (glass) (long)	Wheaton®, Nalgene® 4-edge 500 ml plastic bottle
40.00	39.30	37.30	4.00	DIN 168-1	GL 40 (glass)	For containers of the brand Merck®
41.00	39.50	37.00	3.50	DIN 6063-1	S 40/41 (plastic)	Due to the tolerances involved, a GL 40 cap will often fit on to an S 40 container of the brand Metrohm® / Merck®
42.00	41.50	38.00	4.00		S 42	The designation DIN42 is often written on the cap, Agro Paris Tech 51, Polimoon™, Nalgene®
45.00	44.30	42.30	4.00	DIN 168-1	GL 45	The most common thread for laboratory glass bottles
45.00	44.30	41.00	4.00	DIN 6063-1 DIN 6063-2	S 45	Due to the tolerances involved, a GL 45 cap will fit on to an S 45 thread
44.30	39.70	40.80	4.00	DIN45	DIN45	-
50.00	49.30	46.00	4.00	DIN 6063-1	S 50	Space-saving canister
51.00	49.00	47.00	4.00		S 51	Almost identical to S 50, but the outer diameter of the container thread (OD=Ø) is significantly different. The designation DIN50 is written on the cap.
54.00	53.50	47.50	6.35	53B	B 53	For containers of the brands Nalgene® and Polimoon™
53.80	53.20	49.50	5.00	DIN51	S 55	Designation 51 / DIN51 / HP51 is often written on the cap
60.00	59.20	54.00	6.00	DIN 6063-1	S 60/61	The designation 61, Mauser® 13, RPC Containers® C59PP / DIN61 is often written on the cap
62.51	61.62	60.12	4.23	GPI / SPI	B 63 / GPI 63-415	For containers of the brand Nalgene®
65.00	64.30	59.00	6.00		S 65	For containers of the brand Kautex® (round canisters)
71.00	69.30	65.00	6.00	DIN71	S 70/71	Designation 71, Rieke® 70 mm is often written on the cap
80.00	79.00	77.00	5.50	(DIN 168-1) short	GLS 80	Typical laboratory bottle with wide neck, short thread with 3 thread ends
89.18	88.29	79.00	12.70	83B	B 83	For containers of the brands Nalgene®, Kautex®, Foxx® and Carboy 80 mm
90.00	89.30	84.00	6.00		S 90	The designation D90 is often written on the cap
95.00	93.50	89.00	7.00		S 95	-
106.00	104.00	95.00	6.00		105x 6	Hünersdorff

Thread Types

NPT

NPT (National Pipe Thread) Conical, American Tubular Thread

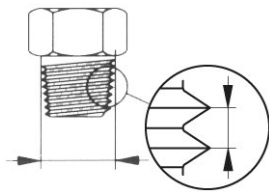
Very easily recognizable due to the conical outer and/or inner diameters, which are self-sealing. NPT is therefore also described as the "sealed thread" or as having a "sealed connection within the thread".



Good to know!

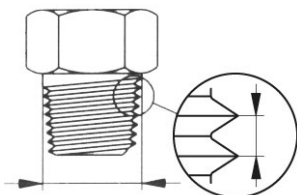
Drawings are of **scale 1:1**

NPT 1/8" – Outer-Ø = 9.9 mm



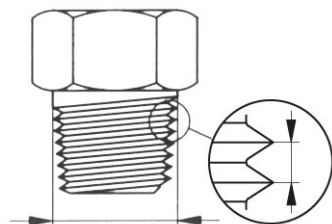
Gradient 27 on 1" = 0.94 mm

NPT 1/4" – Outer-Ø = 13.2 mm



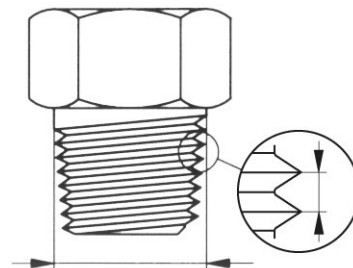
Gradient 18 on 1" = 1.41 mm

NPT 3/8" – Outer-Ø = 16.6 mm



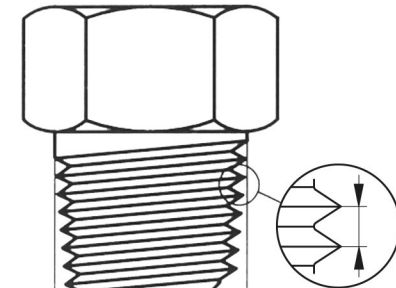
Gradient 18 on 1" = 1.41 mm

NPT 1/2" – Outer-Ø = 20.6 mm



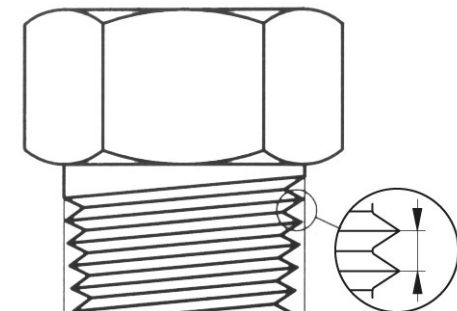
Gradient 14 on 1" = 1.81 mm

NPT 3/4" – Outer-Ø = 26 mm



Gradient 14 on 1" = 1.81 mm

NPT 1" – Outer-Ø = 32.5 mm



Gradient 11.5 on 1" = 2.21 mm



SCAT products with NPT 1/8" thread

NPT 1/8" - "tube connector" on Safety Waste Caps. Flexible like no other, with countless tube connections, dividers, collectors etc.



Thread Types

G; R; BSP

G or R (Whitworth Tubular Thread) and BSP (British Standard Pipe)

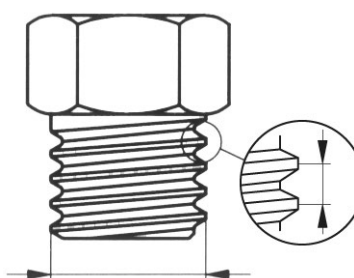
Cylindrical tubular threads are mainly used in english-speaking countries. The measurements, e.g. R 3/4", do not allow for recognition of diameters, the corresponding dimension must be obtained from tables.



Good to know!

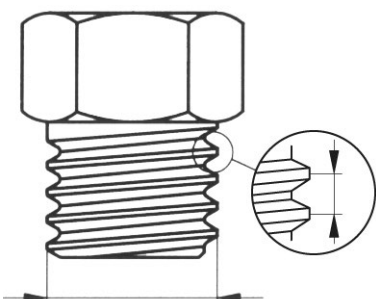
Drawings are of **scale 1:1**

G 1/2" – Outer-Ø = 20.8 mm



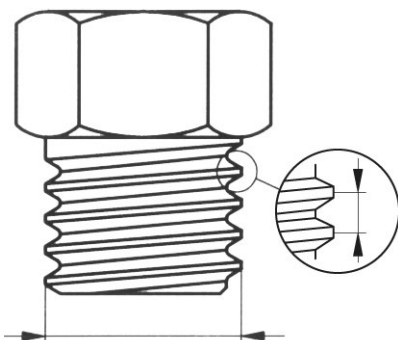
Gradient 14 on 1" = 1.81 mm

G 5/8" – Outer-Ø = 22.8 mm



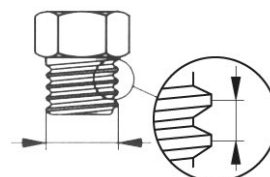
Gradient 14 on 1" = 1.81 mm

G 3/4" – Outer-Ø = 26.3 mm



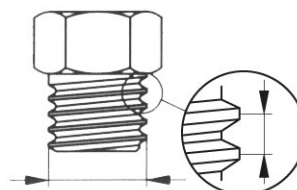
Gradient 14 on 1" = 1.81 mm

G 1/8" – Outer-Ø = 9.6 mm



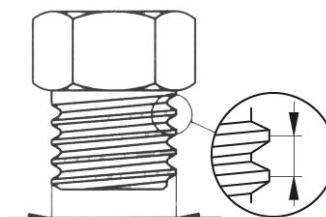
Gradient 28 on 1" = 0.91 mm

G 1/4" – Outer-Ø = 13 mm



Gradient 19 on 1" = 1.34 mm

G 3/8" – Outer-Ø = 16.5 mm

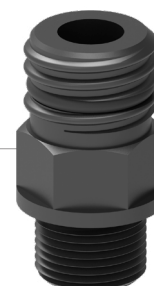


Gradient 19 on 1" = 1.34 mm



SCAT products with G thread

e.g. thread adapters



Thread Types

M

M (Metric ISO-Thread) - standard in the european region

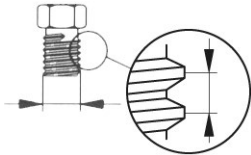
Cylindrical outer and inner diameters, accurate to the very millimetre. Forces are particularly well absorbed, due to the extremely small gradient of the metric thread. The designations begin with an "M", followed by the nominal diameter, e.g. M 10. If there is a gradient that differs from that of the norm, this is given in an addendum, e.g. M 10 x 0.75.



Good to know!

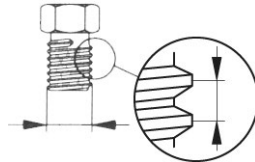
Drawings are of **scale 1:1**

M5 – Outer-Ø = 5 mm



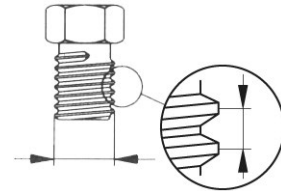
Gradient 0.80 mm

M6 – Outer-Ø = 6 mm



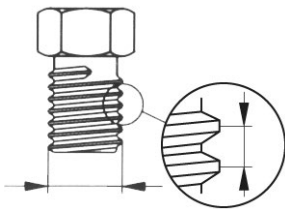
Gradient 1.00 mm

M8 – Outer-Ø = 8 mm



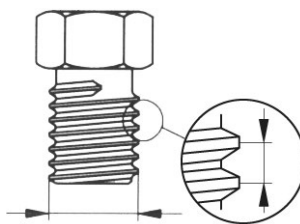
Gradient 1.25 mm

M10 – Outer-Ø = 10 mm



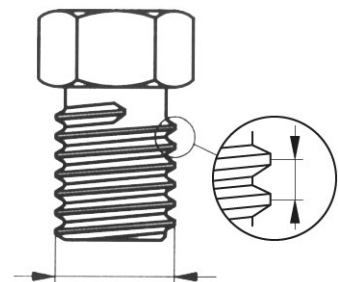
Gradient 1.50 mm

M12 – Outer-Ø = 12 mm



Gradient 1.75 mm

M16 – Outer-Ø = 16 mm



Gradient 2.00 mm



SCAT products with M thread

e.g. SymLine pipe connectors



Thread Types

UNF 1/4"-28G

UNF 1/4"-28G

From the USA. Mainly employed in chromatography/HPLC. Standard sizes are UNF 1/4"-28G and UNF 10-32G. The numbers 28G and 32G refer to the number of thread "steps" taken, over a vertical distance of one inch (25.4 mm).



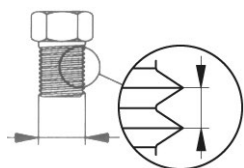
Good to know!

Drawings are of **scale 1:1**

UNF 1/4"-28G kontra M6

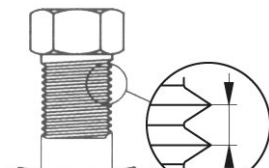
Our HPLC fittings are exclusively constructed with the most typically-used UNF 1/4"-28G HPLC-thread. There also exist fittings and dividers with the very similar thread M6. The two can only be differentiated by exact measurement of the outer diameter, or by using a special test ring or test cap. (It is e.g. therefore possible, to screw the one hollow screw type into the converse piece of the other thread type, at least for 2-3 revolutions). The UNF 1/4" thread has an outer diameter of 6.35 mm, the thread M6 has one of exactly 6.0 mm (production-related tolerances may apply). We recommend the exclusive use of the UNF thread 1/4"-28G, in order to avoid confusion, mistakes being made, or unnecessary double stocking.

UNF 1/4"-28G – Outer-Ø = 6.2 mm



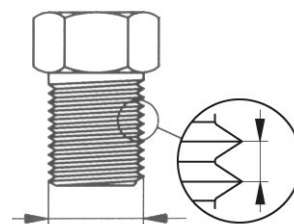
Gradient 28 on 1" = 0.91 mm

UNF 3/8"-28G – Outer-Ø = 9.4 mm



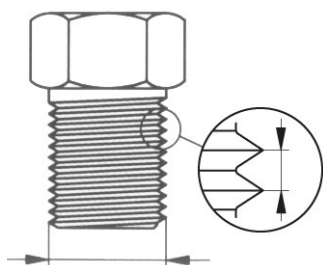
Gradient 24 on 1" = 1.06 mm

UNF 1/2"-28G – Outer-Ø = 12.6 mm



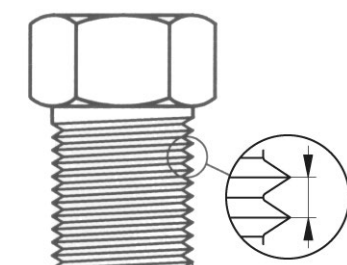
Gradient 20 on 1" = 1.27 mm

UNF 5/8"-18G – Outer-Ø = 15.7 mm



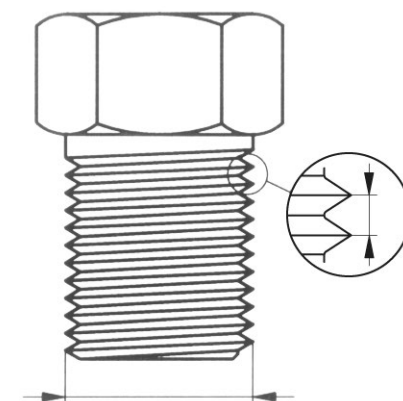
Gradient 18 on 1" = 1.41 mm

UNF 3/4"-16G – Outer-Ø = 18.9 mm



Gradient 16 on 1" = 1.59 mm

UNF 1"-12G – Outer-Ø = 25.2 mm



Gradient 12 on 1" = 2.12 mm



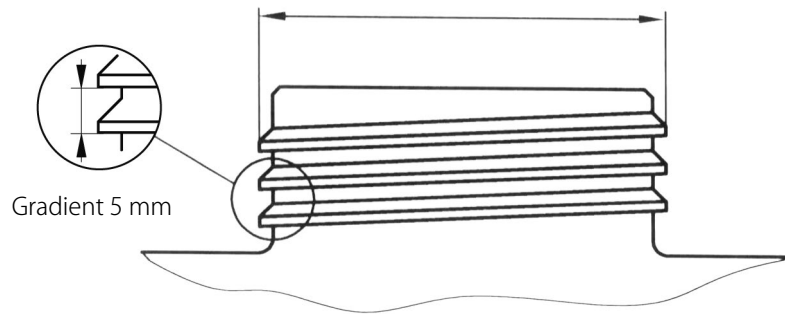
SCAT products with UNF 1/4"-28G thread

e.g. fittings, dividers, blind plugs and air valves

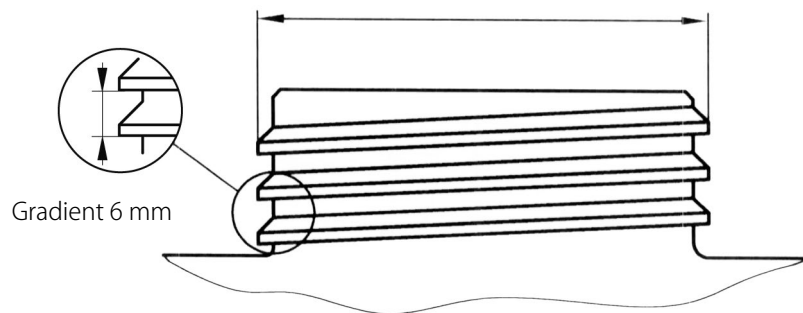


Thread Types Canisters

S 55 – Outer-Ø = 53.5 mm



S 60 – Outer-Ø = 59.5 mm

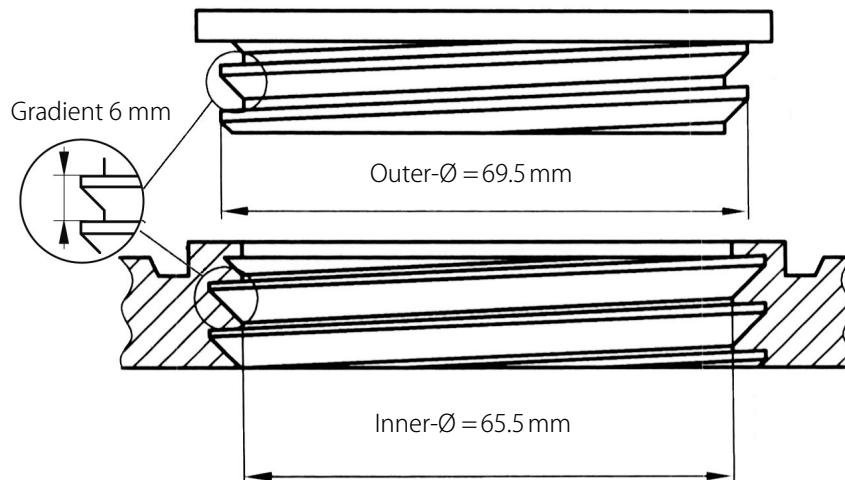


SCAT products with S thread

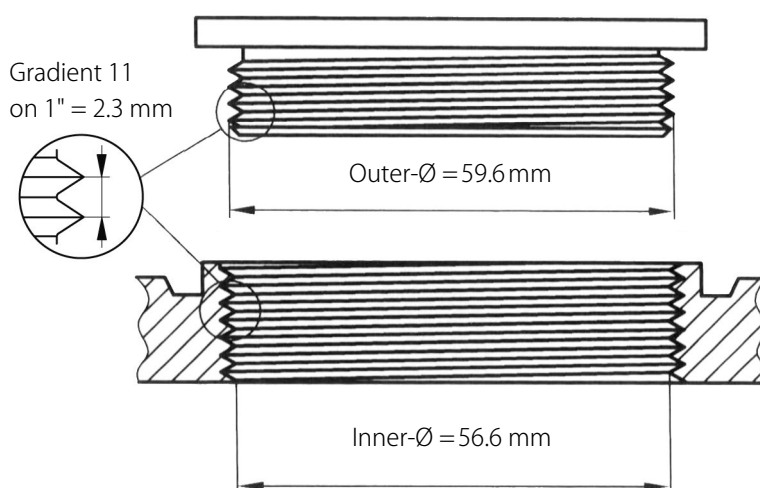
e.g. Safety Waste Caps

Thread Types Barrels

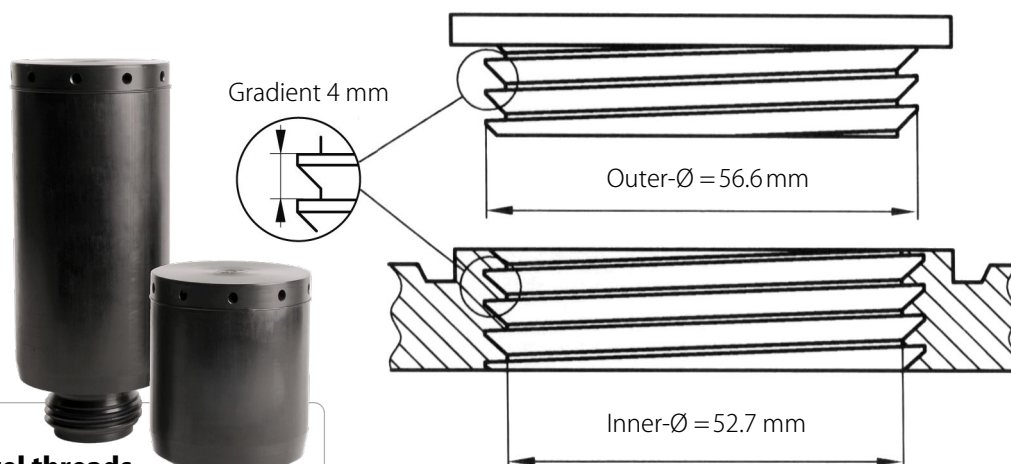
BCS 70x6 e.g. MAUSER 2"®



G2"/ R 2"/ BSP 2"



BCS 56x4 e.g. Tri Sure2"®



SCAT products with barrel threads

e.g. exhaust filters for barrels



Thread Types

Glass Threads

GL threads

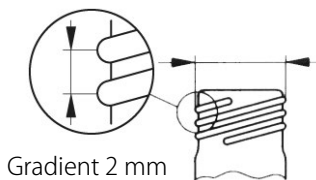
Glass threads are round threads, i.e. the surface of the thread lines is always rounded. The simple form and the rounded surface allow them to be easily constructed on glass bottle necks. The relatively large gradient and the wide edges give it great carrying capacity.



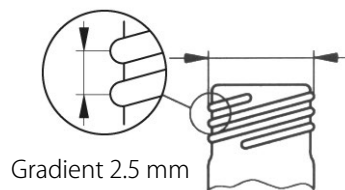
Good to know!

Drawings are of **scale 1:1**

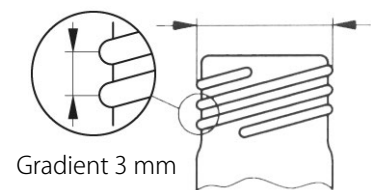
GL 12 – Outer- \varnothing = 12 mm



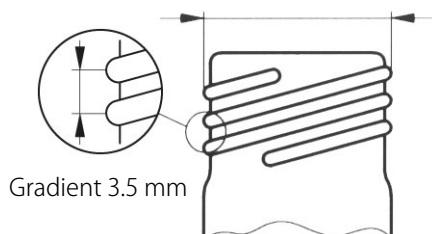
GL 14 – Outer- \varnothing = 14 mm



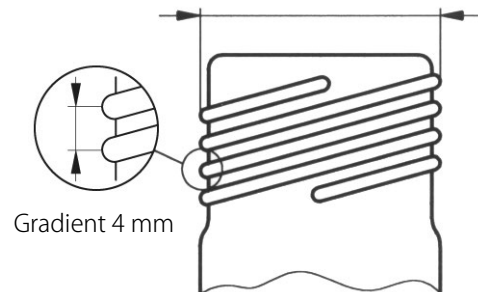
GL 18 – Outer- \varnothing = 18 mm



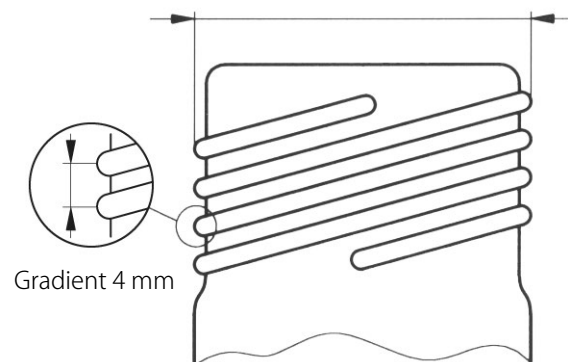
GL 25 – Outer- \varnothing = 25 mm



GL 32 – Outer- \varnothing = 32 mm



GL 45 – Outer- \varnothing = 45 mm



SCAT products with GL threads

GL14 - "The Exhaust Filter Connection", e.g. for exhaust filters and blind plugs

GL 28, GL 38, GL 40, GL 45,
SCAT Safety Cap and
Safety Waste Cap threads



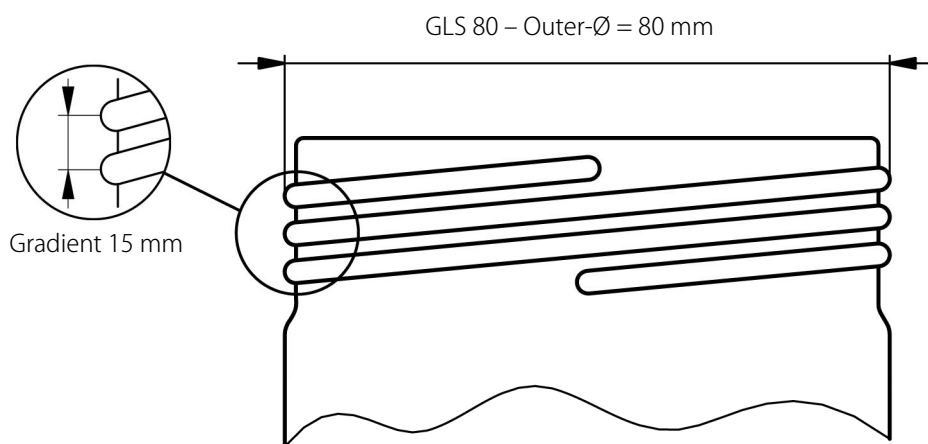
Thread Types

Glass Threads



Good to know!

Drawings are of **scale 1:1**



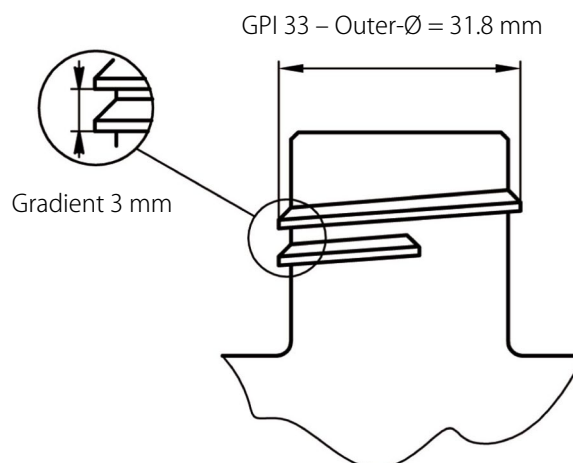
SCAT products with GLS 80

e.g. GLS 80 Safety Caps, Safety Waste Caps and bottle rinsing caps



GPI thread

The abbreviation GPI stands for Glass Packaging Institute, in which the North American manufacturers of glass bottles of every type are represented. The GPI norms are voluntary standards, which serve as the basis for compatibility and exchange regarding glass receptacles and their caps.



Resistance to Chemicals

Resistance Table

Resistance to chemicals

Due to the wide variety and the different compositions of solvents and substances available on the market, we can assume no guarantee for chemical compatibility.

As per the most up-to-date information available, materials with best resistance have been selected for SCAT products, in particular with a view to satisfying the requirements of working with aggressive fluids.

You may obtain information regarding compatibility with specific substances from the manufacturer of your chemicals or other expert sources.

We would be pleased to offer you consultation during selection of suitable products for your application. The responsibility for the selection of the chemicals used lies with the end user.

SCAT Europe offers no guarantee for the results and assumes no obligation or liability concerning the use of these products as regards their chemical compatibility or their abrasive effects.

Resistance to other available chemicals upon request.

Substances (+20°)	Conc.	PTFE	PEHD	PP	PFA	V4A
Acetaldehyde	100,00 %	A	B	C	A	A
Acetamide	100,00 %	A	A	A	A	A
Acetic acid	100,00 %	A	C	B	A	A
Acetic acid	90,00 %	A	A	A	-	A
Acetic acid allyl ester	100,00 %	A	A	C	A	A
Acetic acid butyl ester	100,00 %	A	B	C	A	A
Acetic acid-2-pentyl	100,00 %	A	B	C	A	A
Acetic anhydride	100,00 %	A	C	B	A	A
Acetone	100,00 %	A	A	A	A	A
Acetonitrile	100,00 %	A	A	A	A	A
Acetophenone	100,00 %	A	C	B	A	A
Acetyl chloride	100,00 %	A	C	B	A	B
Acetyl chloride	100,00 %	A	C	C	-	A/C
Acrylonitrile	100,00 %	A	A	A	A	A
Adipic acid	100,00 %	A	A	A	A	B
Allyl acetate	100,00 %	A	A	B	-	A

Meaning of the evaluations

Resistance	Meaning
A	Very good resistance after 30 days' exposure, none or only mild damage.
B	Conditional resistance: damage may occur after longer periods of exposure (e.g. hair cracks, mechanical stability affected, discolouration etc.)
C	Poor resistance: can lead to destruction, severe damage, deformation of plastic etc.
A/C	There is a risk of pitting corrosion or stress cracking.
-	Currently no information about chemical resistance available.

Substances (+20°)	Conc.	PTFE	PEHD	PP	PFA	V4A
Allyl chloride	100,00 %	A	B	C	A	B
Aminoacetic acid	10,00 %	A	A	A	-	B
Aminobenzene	100,00 %	A	A	A	A	A
Aminomethane	100,00 %	A	A	A	A	A
Ammonium hydroxide	25,00 %	A	A	A	A	A
Amyl acetate	100,00 %	A	A	B	A	A
Amyl alcohol	100,00 %	A	A	A	A	A
Aniline	100,00 %	A	A	A	A	A
Anisole	100,00 %	A	B	B	A	A
Aqua regia	100,00 %	A	C	C	-	C
Aviation fuel	100,00 %	A	C	B	A	A
Benzaldehyde	100,00 %	A	B	A	A	A
Benzene	100,00 %	A	B	B	A	A
Benzenesulfonic acid	100,00 %	A	A	A	A	A
Benzoic acid	100,00 %	A	A	A	A	A
Benzoyl chloride	100,00 %	A	C	C	A	B
Benzyl alcohol	100,00 %	A	A	A	-	A
Benzyl chloride	100,00 %	A	C	C	A	B
Boric acid	100,00 %	A	A	A	A	A
Buta-1,3-diene	100,00 %	A	C	C	A	A
Butan-2-one	100,00 %	A	C	C	A	A
Butanedioic acid	100,00 %	A	A	A	-	A
Butanol	100,00 %	A	A	A	A	A
Butenedioic acid	100,00 %	A	A	A	A	A
Buthylphenol, tert.	100,00 %	A	B	B	A	A

Resistance to Chemicals

Resistance Table

Substances (+20°)	Conc.	PTFE	PEHD	PP	PFA	V4A
Butyl acetate	100,00 %	A	C(B)	C	A	A
Butyl alcohol	100,00 %	A	A	A	A	A
Butyl ether	100,00 %	A	C	C	A	A
Butyric acid	100,00 %	A	C	A	A	A
Camphor	100,00 %	A	C	B	A	A
Carbolic acid	100,00 %	A	A	A	A	A
Carbon disulfide	100,00 %	A	C	C	A	A
Carbon tetrachloride	100,00 %	A	C	C	A	B
Caustic soda	85,00 %	A	A	A	A	A/B
Chloral hydrate	100,00 %	A	B	C	-	-
Chlorine	100,00 %	A	C	C	A	C
Chloroacetic acid	100,00 %	A	A	A	A	C
Chlorobenzene	100,00 %	A	C	C	A	A
Chloroethane	100,00 %	A	B	C	A	B
Chloroethanol-2	100,00 %	A	A	A	A	B
Chloroform (trichloromethane)	100,00 %	A	C	C	A	A
Chlorosulfuric acid	100,00 %	A	C	C	A	C
Chlorotoluene	100,00 %	A	C	B	A	A
Chromic acid	50,00 %	A	C	B	A	B
Chromic acid	<50,00%	A	B	B	A	B
Chromic sulfuric acid	100,00 %	A	C	C	A	B
Citric acid	10,00 %	A	A	A	A	A
Cumene	100,00 %	A	B	C	A	A
Cyclohexane	100,00 %	A	A	A	A	A
Cyclohexanol	100,00 %	A	A	A	A	A
Cyclohexanone	100,00 %	A	B	B	A	A
Decalin	100,00 %	A	B	C	A	A
Decane	100,00 %	A	C	B	A	A
Diacetone alcohol	100,00 %	A	A	A	A	A
Diaminoethane	100,00 %	A	A	A	A	A
Dibutyl ether	100,00 %	A	C	C	A	A
Dichloroacetic acid (also monochloro-)	100,00 %	A	A	A	A	-
Dichlorobenzene	100,00 %	A	B	C	A	-
Dichloroethanes	100,00 %	A	B	C	-	B
Dichloromethane (methylene chloride)	100,00 %	A	C	C	A	B
Diesel fuel	100,00 %	A	B	B	A	A

Substances (+20°)	Conc.	PTFE	PEHD	PP	PFA	V4A
Diethyl ether	100,00 %	A	C	C	A	A
Diethyl ketone	100,00 %	A	B	B	A	A
Diethylamine	100,00 %	A	C	A	A	A
Diethylene glycol	100,00 %	A	A	A	-	A
Diethylene oxide	100,00 %	A	A	C	A	-
Dihydroxybenzene-1,3	50,00 %	A	C	B	A	-
Diisobutylketone	100,00 %	A	B	B	A	A
Dimethylformamide	100,00 %	A	A	A	A	A
Dimethyl ether	100,00 %	A	C	C	A	A
Dimethyl sulfoxide (DMSO)	100,00 %	A	A	A	-	A
Dimethylamine	100,00 %	A	B	B	A	A
Dimethylbenzenes	100,00 %	A	C	C	A	A
Dioxane	100,00 %	A	A	B	A	A
Diphenyl ether	100,00 %	A	C	C	A	A
Dipropylene glycol	100,00 %	A	A	A	-	A
Disodium tetraborate	100,00 %	A	A	A	-	-
Ethanol (ethyl alcohol)	96,00 %	A	A	A	A	A
Ethereal oils	100,00 %	A	C	C	-	A
Ethyl acetate	100,00 %	A	B/C	B/C	A	A
Ethyl acrylate	100,00 %	A	C	C	A	A
Ethyl chloride	100,00 %	A	C	C	A	A/C
Ethylbenzene	100,00 %	A	B	C	A	A
Ethylene glycol	100,00 %	A	A	A	A	A
Ethylene oxide	100,00 %	A	B	B	A	A
Ethylene chlorhydrin	100,00 %	A	A	A	A	A/C
Ethylenediamine	100,00 %	A	A	A	A	A
Ethylmethylketone	100,00 %	A	C	C	A	A
Formaldehyde, Formalin	40,00 %	A	A	A	A	A
Formamide (Methanamide)	100,00 %	A	A	A	A	A
Formic acid	100,00 %	A	A	B	A	B
Fuel oils	100,00 %	A	B	B	A	A
Furfural	100,00 %	A	B	C	A	A
Gasoline, aromatic	100,00 %	A	B	B	A	B
Glycerine	100,00 %	A	A	A	-	A
Glycine	10,00 %	A	A	A	-	A
Glycol	100,00 %	A	A	A	A	A
Glycolic acid	100,00 %	A	A	A	A	A/B

Resistance to Chemicals

Resistance Table

Substances (+20°)	Conc.	PTFE	PEHD	PP	PFA	V4A
Heptane	100,00 %	A	B	B	A	A
Hexadecanol	100,00 %	A	A	A	A	A
Hexafluorosilicic acid	100,00 %	A	A	A	A	A
Hexan-1,2,6-triol	100,00 %	A	A	A	A	A
Hexane	100,00 %	A	B	B	A	A
Hexanedioic acid (Adipic acid)	100,00 %	A	A	A	A	A
Hexanol	100,00 %	A	A	A	A	A
Hydrazine hydrate	64,00 %	A	A	A	A	A/B
Hydrochloric acid	37,00 %	A	A	A	A	C
Hydrofluoric acid	45,00 %	A	A	A	A	C
Hydrogen peroxide	90,00 %	A	B	B	A	A
Hydrogen sulfide	100,00 %	A	A	A	A	A
Hydroxyacetic acid (Glycolic acid)	100,00 %	A	A	A	A	B
Isobutanol	100,00 %	A	A	A	A	A
Isooctane	100,00 %	A	B	B	A	A
Isopropanol	100,00 %	A	A	A	A	A
Isopropenyl acetate	100,00 %	A	A	A	A	-
Isopropyl acetate	100,00 %	A	A	B	-	A
Isopropyl ether	100,00 %	A	C	C	A	A
Isopropylbenzene	100,00 %	A	C	C	A	-
Kerosene	100,00 %	A	A	A	A	A
Lactic acid	90,00 %	A	A	A	A	A/B
Menthol	100,00 %	A	A	A	-	A
Methanol	100,00 %	A	A	A	A	A
Methoxybenzene	100,00 %	A	C	C	A	A
Methoxyethanol	100,00 %	A	A	C	A	A
Methyl acetate	100,00 %	A	A	A	A	A
Methyl bromide	100,00 %	A	C	C	A	A/C
Methyl ethyl ketone	100,00 %	A	B	B	A	A
Methyl isobutyl ketone	100,00 %	A	C	C	A	A
Methyl methacrylate	100,00 %	A	A	A	A	A
Methyl phenyl ether	100,00 %	A	C	C	A	A
Methylamine	100,00 %	A	A	A	A	A
Methylbenzene	100,00 %	A	C	C	A	A

Substances (+20°)	Conc.	PTFE	PEHD	PP	PFA	V4A
Methylcyanide	100,00 %	A	A	A	A	A
Methylene chloride	100,00 %	A	C	C	A	A/C
Methyloxirane	100,00 %	A	A	A	A	A
Methylpentanone	100,00 %	A	C	C	A	A
Methylphenylketone	100,00 %	A	C	C	A	A
Mineral oil	100,00 %	A	A	B	-	A
Nitric acid	65,00 %	A	B	C	A	B
Nitrobenzene	100,00 %	A	C	B	A	A
Octane	100,00 %	A	B	B	A	A
Oleic acid	100,00 %	A	C(B)	C(B)	A	A
Oleum	100,00 %	A	C	C	A	A
Oxalic acid	100,00 %	A	A	A	A	A/B
Pentan-1-ol	100,00 %	A	A	A	A	-
Pentan-3-on	100,00 %	A	A	A	A	A
Pentylacetate	100,00 %	A	A	C	A	A
Perchlorethylene	100,00 %	A	C	C	A	-
Perchloric acid	100,00 %	A	B	C	A	-
Petroleum	100,00 %	A	B	B	A	A
Phenol	100,00 %	A	A	A	A	A
Phenylamine	100,00 %	A	A	A	A	A
Phosphoric acid	85,00 %	A	B	A	A	A/B
Phosphorus trichloride	100,00 %	A	B	B	A	-
Potassium hydroxide	100,00 %	A	A	A	A	A
Potassium hypochlorite	20,00 %	A	B	B	A	B
Potassium perchlorate	25,00 %	A	A	A	A	A
Propan-2-ol	100,00 %	A	A	A	A	A
Propane-1,2-diol	100,00 %	A	A	A	A	A
Propionic acid	100,00 %	A	A	A	A	A
Propylene oxide	100,00 %	A	A	A	A	A
Pyridine	100,00 %	A	B	B	A	A
Resorcinol	50,00 %	A	B	A	A	-
Salicylic acid	100,00 %	A	A	A	A	A
Silicone oils	100,00 %	A	A	A	-	A
Silver acetate	100,00 %	A	A	A	-	-
Sodium hydroxide	85,00 %	A	A	A	A	A/B

Resistance to Chemicals

Resistance Table

Substances (+20°)	Conc.	PTFE	PEHD	PP	PFA	V4A
Sodium persulfate	25,00 %	A	A	B	A	A
Sodium persulfate	100,00 %	A	A	A	A	A
Styrene	100,00 %	A	C	C	A	A
Succinic acid	100,00 %	A	A	A	A	A
Sulfuric acid	80,00 %	A	A	A	A	B/C
Sulfuric acid, fuming	100,00 %	A	C	C	A	A
Tartaric acid	100,00 %	A	A	A	A	A
Tetrachlorethylene	100,00 %	A	C	C	A	-
Tetrachloroethane	100,00 %	A	B	C	A	-
Tetrahydrofuran (THF)	100,00 %	A	C	C	A	A
Tetrahydronaphthalene	100,00 %	A	C	C	A	A
Tetralin	100,00 %	A	C	C	A	A
Thionyl chloride	100,00 %	A	C	C	A	-
Toluene	100,00 %	A	C	C	A	A
Trichloroacetic acid	100,00 %	A	B	A	A	B
Trichlorobenzenes	100,00 %	A	C	C	A	-
Trichloroethylene	100,00 %	A	C	C	A	B
Triethanolamine	100,00 %	A	A	A	-	A
Triethylene glycol	100,00 %	A	A	A	A	A
Turpentine	100,00 %	A	B	C	A	A
Urea	100,00 %	A	A	A	A	A
Uric acid	100,00 %	A	A	A	-	A

Substances (+20°)	Conc.	PTFE	PEHD	PP	PFA	V4A
Vinyl acetate	100,00 %	A	A	B	A	A
Vinyl chloride	100,00 %	A	A	C	A	-
Vinyl cyanide	100,00 %	A	A	A	A	A
Vinylbenzene, Styrene	100,00 %	A	C	C	A	A
Vinylidene chloride	100,00 %	A	C	C	A	-
Waterglass	100,00 %	A	A	A	-	A
Xylenes	100,00 %	A	C	C	A	A

Addendum

Safety Instructions

Warranty/Safety of our products

Strict quality control ensures you receive faultless, high-quality products from us. However, if a product is defective, we will, of course, replace it free of charge. Since these are technically sophisticated components, we cannot provide warranty for any articles which have been technically modified or damaged by the user.

Customised products

The same applies to customised products which have been manufactured according to the specifications made by our customers. It is the responsibility of the user to check whether these products meet their technical requirements. We accept no liability for events or accidents caused by incorrect handling or technical modifications to our products by the user.

Health & Safety

Pay special attention to hazard pictograms (including H and P statements) on Safety Data Sheets (SDS) in your company and on the packaging of your chemicals. When handling substances labelled as hazardous, always wear personal protective equipment (PPE) as specified.

Chemical compatibility

Due to the variety and different composition of solvents and substances available on the market, we cannot provide warranty for chemical compatibility. State-of-the-art resistant materials have been used for SCAT products, with special focus on requirements relating to work with aggressive liquids. You can obtain information on compatibility with specific substances from your chemical manufacturers or other specialist sources. We can provide support in selecting the appropriate for your application. However, the end user is responsible for the selection of chemicals used. SCAT does neither provide warranty for results nor does it assume any obligation or liability in connection with the use of such products as far as their chemical compatibility or abrasive effects are regarded.

A wide range of information is available for you to download from the SCAT online site. For example, the continuously updated table: 'Plastics – Chemical Resistance to Chemicals' or safety instructions relating to SCAT products. Visit us at:

Grounding and antistatics

Our products for safe grounding of containers and vessels are suitable for connection to current-free and zero potential installations. Connection to power-driven installations or live components must be executed by qualified electricians only!

Please observe the internal safety instructions of your company.

Addendum

GHS Hazard Symbols



GHS 01
Explosive



GHS 06
Acute toxicity



GHS 02
Flammable



GHS 07
Health hazard/
Hazardous to the ozone layer



GHS 03
Oxidising



GHS 08
Serious health hazard



GHS 04
Gas under pressure



GHS 09
Hazardous to the environment



GHS 05
Corrosive

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижегород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47