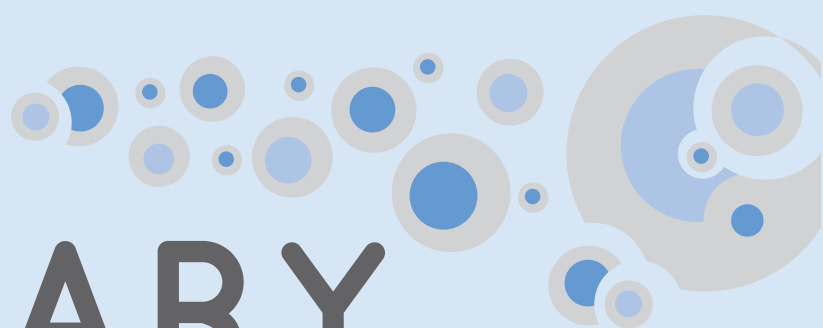


TO PROTECT YOUR HEALTH

SMART CAPS





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HEALTHY AND WASTE CAPS,

A ONE WAY AIR CHECK VALVE TECHNOLOGY

DANGER !

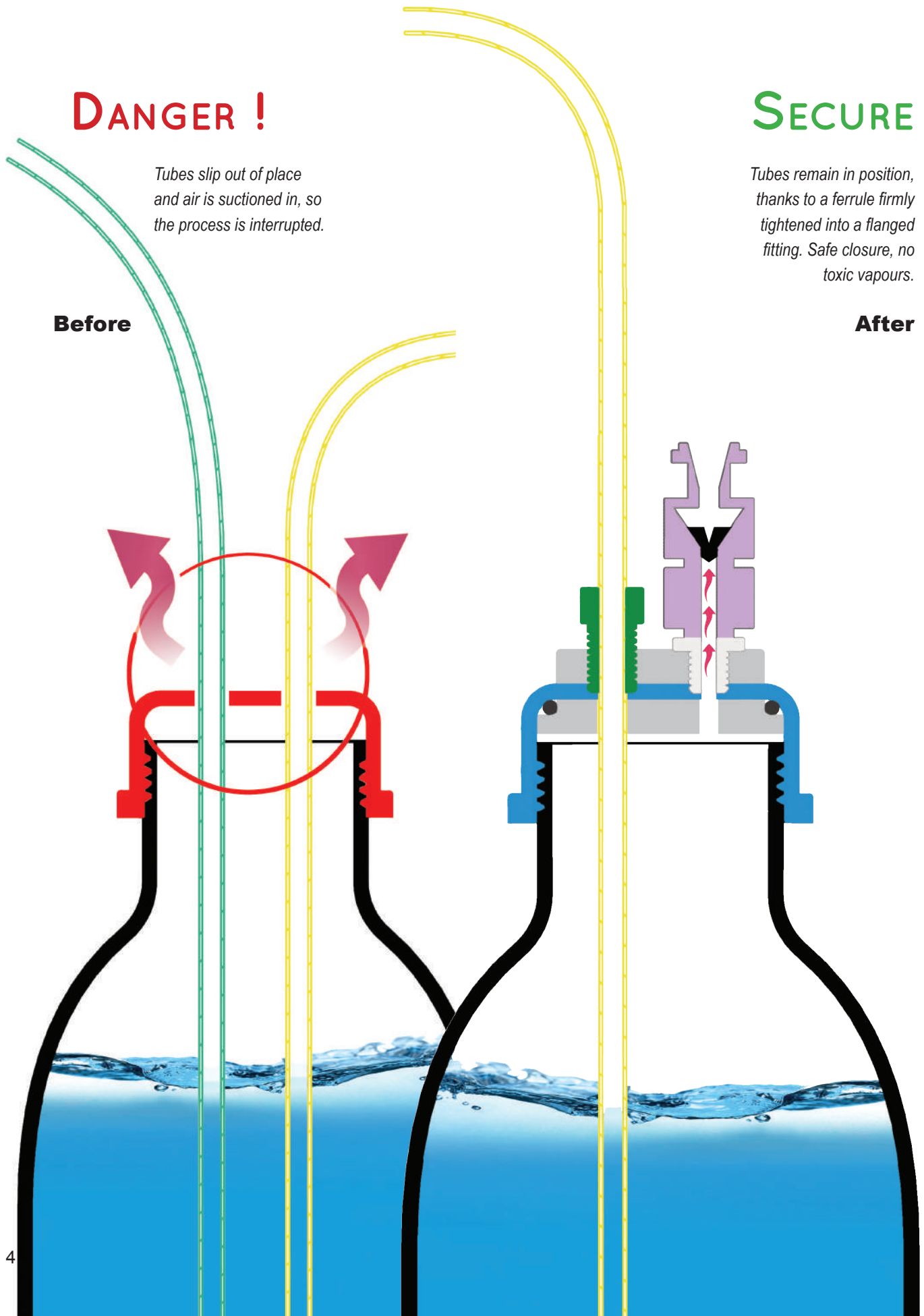
Tubes slip out of place and air is suctioned in, so the process is interrupted.

Before

SECURE

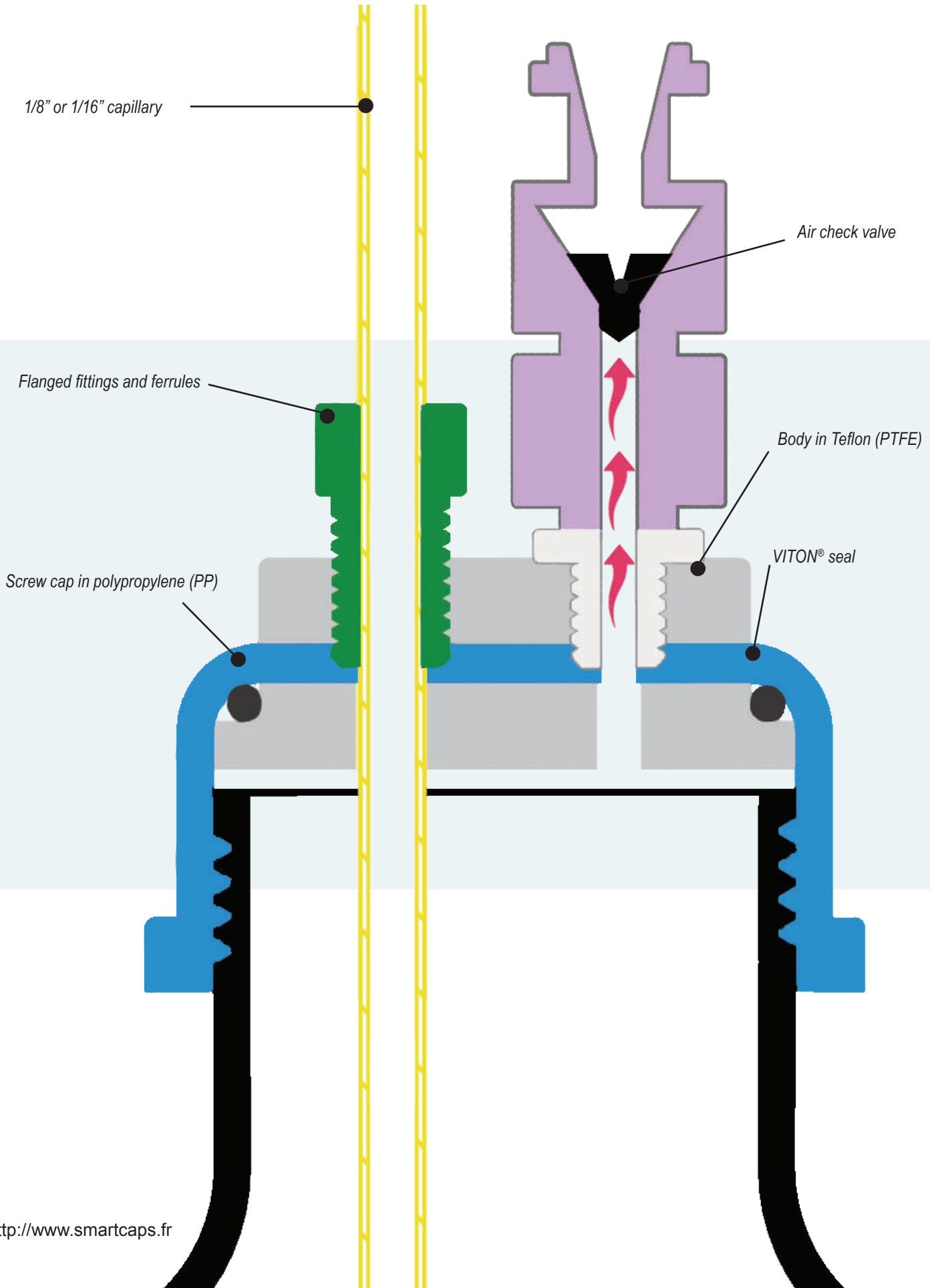
Tubes remain in position, thanks to a ferrule firmly tightened into a flanged fitting. Safe closure, no toxic vapours.

After



HOW DOES IT WORK ?

A TECHNOLOGY TO PROTECT YOUR HEALTH



HEALTHY AND WASTE CAPS,

A ONE WAY AIR CHECK VALVE TECHNOLOGY

Smart Healthy Caps are in response to modern laboratory safety regulations.

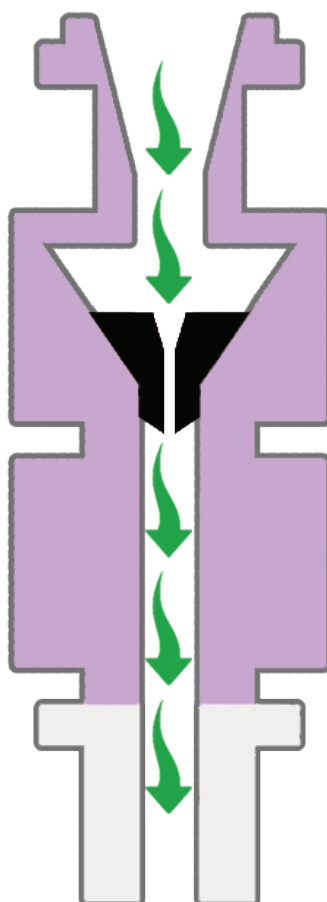
They are made of inert materials resistant to chemicals.

The use of a one-way air check valve allows for low cost safe and secure solvent extraction in your laboratory.

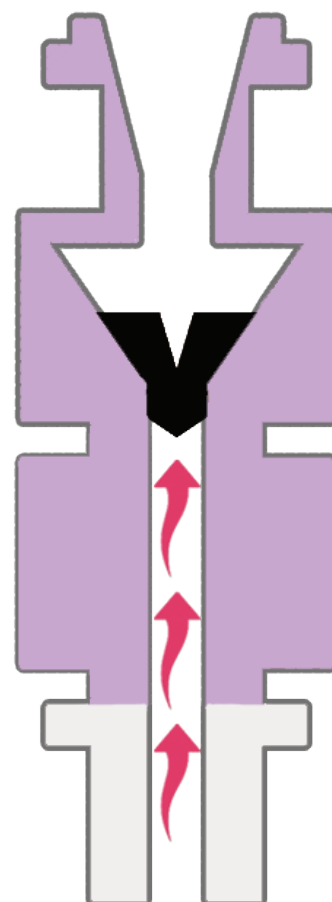
- ▶ No solvent evaporation. ✓
- ▶ Keep your concentration accurate for several days. ✓
- ▶ No mobile phase external contamination. ✓

360° ROTATION!

The rotation of the central part of the caps allows a good ease of installation, and also avoids any entanglement of tubes.



The membrane allows air to enter for pressure equalization.



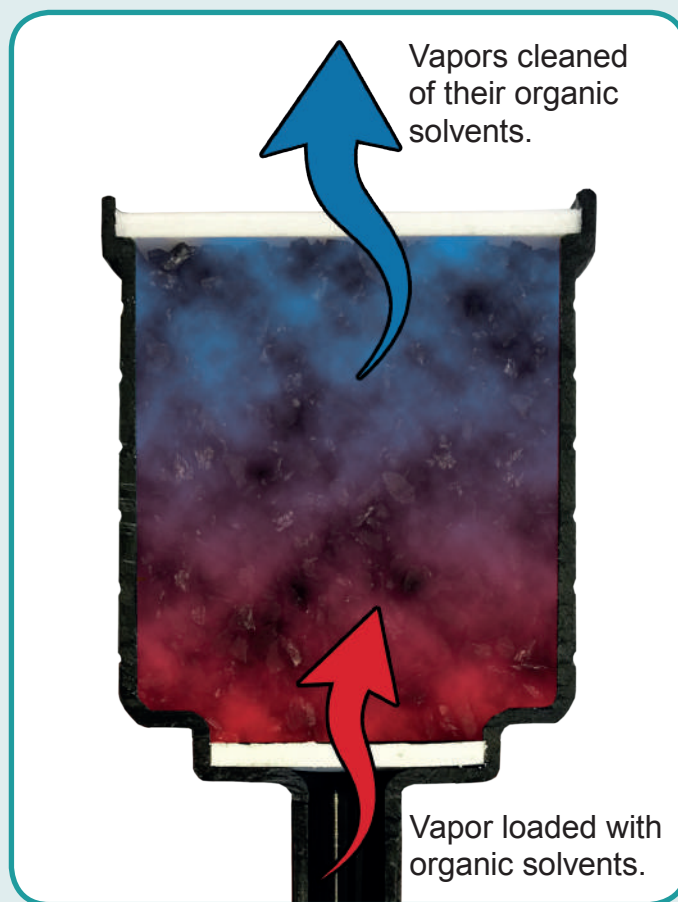
The membrane is a barrier against eluent vapours and gas leaks.

HOW DOES IT WORK ?

A TECHNOLOGY TO PROTECT YOUR HEALTH

A Smart Waste Caps is formed by an airtight cap, drilled by a variable number of holes to host effluents tubes outgoing of the HPLC system.

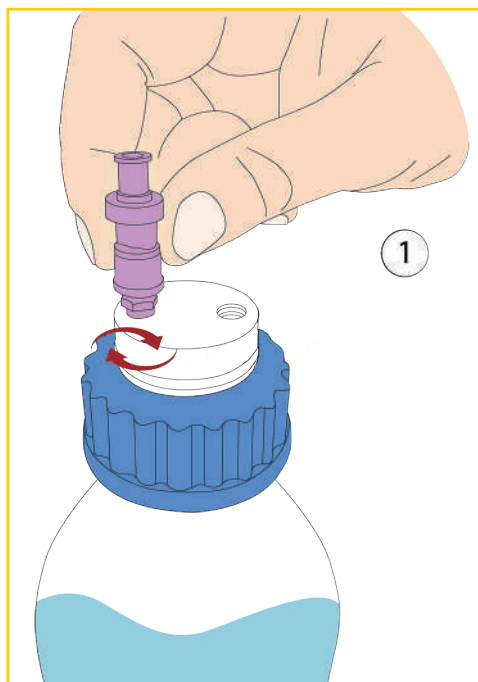
The main piece is a cartridge filled with activated charcoal attached to the cap. This filter allows the absorption of 98% of the solvent's vapours released by the solvent's can.



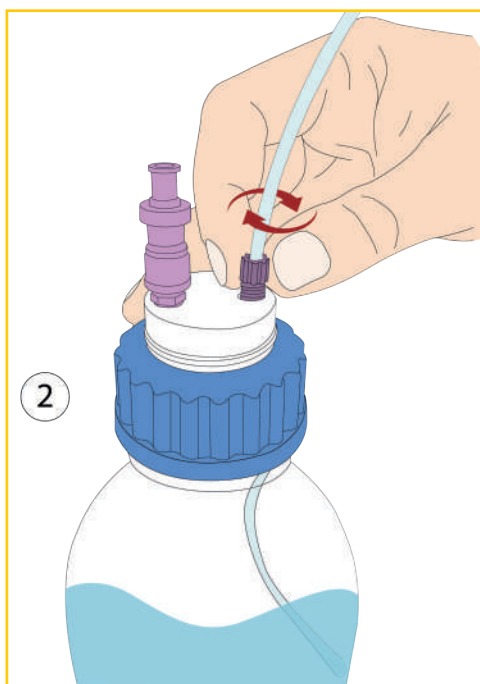
AIT France offers a diversified range of activated charcoal cartridge for the emission of eluent or solvent vapors; by special charcoal impregnation, the cartridges become an excellent barrier against concentrated acids or bases.

SMART HEALTHY CAPS

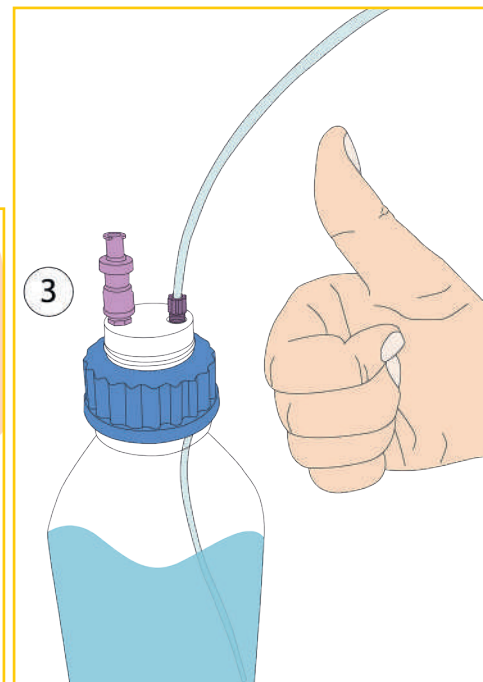
GUIDE FOR INSTALLING A SMART HEALTHY CAPS



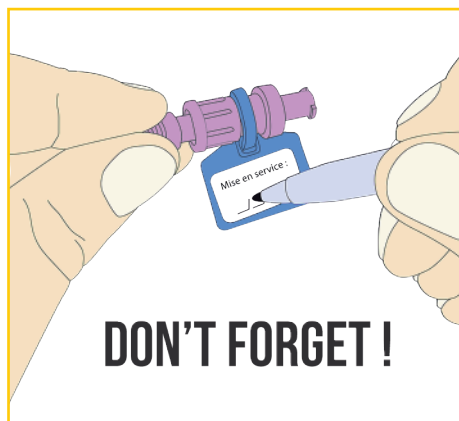
- Our Smart Healthy Caps are delivered with their pre-installed air check valves. However, if you need a valve that is resistant to polar solvent or amine derivatives vapors, simply unscrew the valve in place and then screw the new valve into its proper thread in the cap.



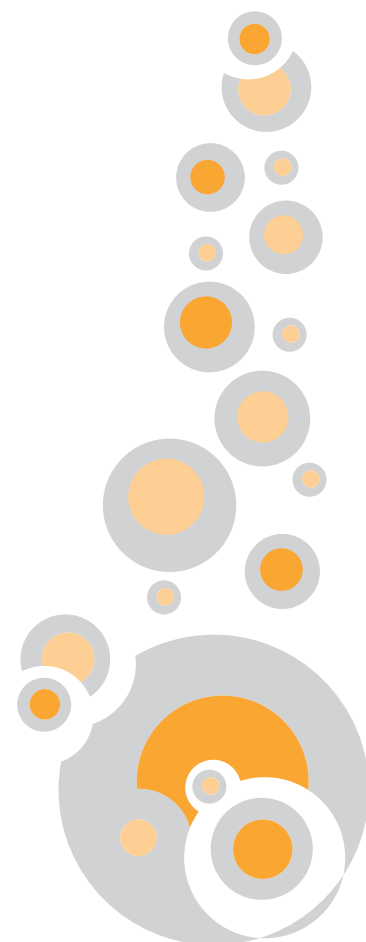
- Screw the universal capillary connector into its proper thread on your Smart Healthy Cap. (See our “Installing a universal capillary connector” guide on page 21 for more details)



- Installation completed!



...And do not forget to indicate the date of commissioning of your air check valve in order to be able to anticipate its renewal!



SMART HEALTHY CAPS

ANALYTICAL SYSTEM



GL45 THREAD TYPE WITH AIR CHECK VALVE

Smart Healthy Caps for GL45 or DURAN® types are the most widespread in laboratories. Smart Healthy Caps are delivered with their universal capillary connector (external diameter 1/8" to 1/16").



DESCRIPTION	FERRULE *	REFERENCE
Smart healthy caps GL45, 1 outlet and 1 air check valve	1/8"	SHC-1
Smart healthy caps GL45, 2 outlets and 1 air check valve	1/8"	SHC-2
Smart healthy caps GL45, 3 outlets and 1 air check valve	1/8"	SHC-3
Smart healthy caps GL45, 4 outlets and 1 air check valve	1/8"	SHC-4
Smart healthy caps GL45, 5 outlets and 1 air check valve	1/8"	SHC-5



* For another diameter, precise it when you order it.

Warning : Change your air check valve once a year.

GL45 THREAD WITH STOPCOCK

GL45 Smart Healthy Caps with a stopcock offer more flexibility, without air bubbles inside the tubing. Smart Healthy Caps are delivered with their fittings 1/8" (external diameter 3,2 mm).



SMART HEALTHY CAPS



SHC-V2



SHC-V4

DESCRIPTION	FERRULE *	REFERENCE
Smart healthy caps GL45, 1 outlet with shut-off and 1 air check valve	1/8"	SHC-V1
Smart healthy caps GL45, 2 outlets with shut-off and 1 air check valve	1/8"	SHC-V2
Smart healthy caps GL45, 3 outlets with shut-off and 1 air check valve	1/8"	SHC-V3
Smart healthy caps GL45, 4 outlets with shut-off and 1 air check valve	1/8"	SHC-V4

*For another diameter, specify it when ordering.

GROUND NECK WITH AIR CHECK VALVE

Smart Healthy Caps with ground neck 29/32 are made for ground-necked flasks. Smart Healthy Caps are delivered with their universal capillary connector (external diameter 1/8" to 1/16").



SHC-1-EM



SHC-2-EM



AD-45-EM**



DESCRIPTION	FERRULE *	REFERENCE
Smart healthy caps, ground neck (29/32 mm)	1 outlet (1/8"), 1 air check valve	SHC-1-EM
Smart healthy caps, ground neck (29/32 mm)	2 outlets (1/8"), 1 air check valve	SHC-2-EM
Smart healthy caps, ground neck (29/32 mm)	3 outlets (1/8"), 1 air check valve	SHC-3-EM
Smart healthy caps, ground neck (29/32 mm)	4 outlets (1/8"), 1 air check valve	SHC-4-EM

* For another diameter, precise it when you order it. **SHC-2 sold separately.

SMART HEALTHY CAPS

ANALYTICAL SYSTEM

DISTRI SMART SAFE WITH A SMART HEALTHY CAP

DESCRIPTION	REFERENCE
Distri Smart Safe Adapter of 1 outlet (1/8" or 1/16") + 1 air check valve	SHC-1PV
Distri Smart Safe Adapter of 2 outlets (1/8" or 1/16") + 1 air check valve	SHC-2PV
Distri Smart Safe Adapter of 3 outlets (1/8" or 1/16") + 1 air check valve	SHC-3PV
Distri Smart Safe Adapter of 4 outlets (1/8" or 1/16") + 1 air check valve	SHC-4PV
Pipette 1 to 10 mL *	DIS 10
Pipette 2,5 to 25 mL *	DIS 25

* To obtain the same configuration as the picture above, choose a Distri Smart Safe Adapter and a pipette.

A.I.T. is introducing a new variable volume system for eluent distribution which can be directly attached to your HPLC solvent bottle. It provides with the same benefits as the Smart Healthy Caps but with this additional feature. The neck is compatible with the DURAN® GL45 bottles.



SMART HEALTHY CAPS

ANALYTICAL SYSTEM

Smart Healthy Caps Septum offers you the possibility to introduce or withdraw a volume of solvent or reagent of your choice at any time.



DESCRIPTION

REFERENCE

Smart Healthy Caps GL45 1 septum*, 1 outlet (1/8" or 1/16") and 1 air check valve	SHC-1-SEPT
Smart Healthy Caps GL45 1 septum*, 2 outlets (1/8" or 1/16") and 1 air check valve	SHC-2-SEPT
Smart Healthy Caps GL45 1 septum*, 3 outlets (1/8" or 1/16") and 1 air check valve	SHC-3-SEPT

SHC-2-SEPT

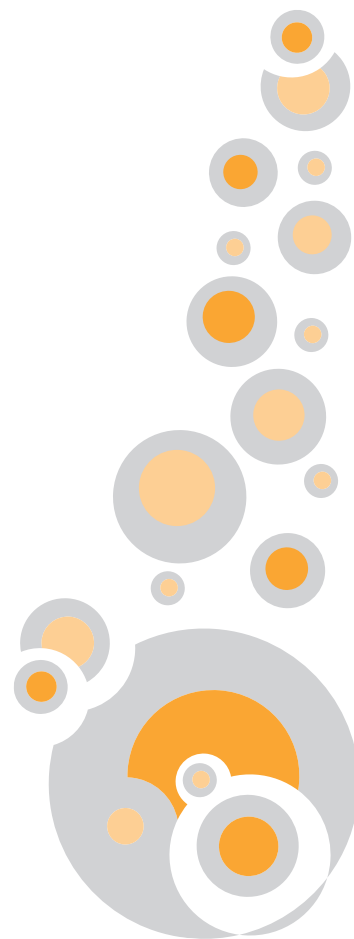
*The septum is delivered as standard, non-pierced



SMART HEALTHY CAPS

PREPARATIVE SYSTEM

SMART HEALTHY CAPS FOR GL45 SCHOTT®
OR DURAN® TYPE



! Warning : **Change your air check valve once a year.**

DESCRIPTION	REFERENCE
Smart Healthy Caps GL45 for preparative HPLC with 1 outlet (1/4") + 1 air check valve	SHC-P-A
Smart Healthy Caps GL45 for preparative HPLC with 2 outlets (1/4" and 1/8") + 1 air check valve	SHC-P-A-C
Smart Healthy Caps GL45 for preparative HPLC with 1 outlet (3/16") + 1 air check valve	SHC-P-B
Smart Healthy Caps GL45 for preparative HPLC with 2 outlets (3/16") + 1 air check valve	SHC-P-2B



SHC-P-A-C



SHC-P-A



SHC-P-B

**OTHER
CONFIGURATIONS
POSSIBLE ON
REQUEST!**

SMART HEALTHY CAPS

PREPARATIVE SYSTEM

SMART HEALTHY CAPS FOR DIN51/S55 AND DIN60/S60 THREADS

Specially adapted for large volumes of preparative HPLC eluents. The air check valve works with a flow rate from 100ml / min to 500ml / min.

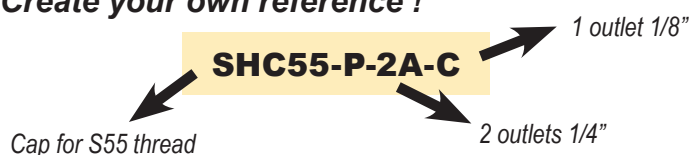


DESCRIPTION *	REFERENCE
Smart Healthy Caps S55 for preparative HPLC with 1 outlet (1/4") + 1 air check valve	SHC55-P-A
Smart Healthy Caps S55 for preparative HPLC with 2 outlets (1/4" et 1/8") + 1 air check valve	SHC55-P-A-C
Smart Healthy Caps S55 for preparative HPLC with 1 outlet (3/16") + 1 air check valve	SHC55-P-B
Smart Healthy Caps S60 for preparative HPLC with 1 outlet (1/4") + 1 air check valve	SHC60-P-A
Smart Healthy Caps S60 for preparative HPLC with 2 outlets (1/4" et 1/8") + 1 air check valve	SHC60-P-A-C
Smart Healthy Caps S60 for preparative HPLC with 1 outlet (3/16") + 1 air check valve	SHC60-P-B



*also available with any type of thread (Nalgene, DIN90...)

Create your own reference !



Outlets : A = 1/4", B = 3/16", C = 1/8"

SMART HEALTHY CAPS

PREPARATIVE SYSTEM

SMART HEALTHY CAPS WITH FUNNEL FOR PREPARATIVE HPLC BOTTLE

This Smart Healthy Caps, equipped with a funnel with hinged lid, allows to pour the eluent into the bottle without having to unscrew the cap. It is equipped with an air check valve.



DESCRIPTION	THREAD	REFERENCE
Funnel with hinged lid for solvent reservoir with one outlet of 4 mm (3/16") and one air check valve	GL45	SHC45-FSP-B
	S55	SHC55-FSP-B
	S60	SHC60-FSP-B
	NALGENE® B53	SHCB53-FSP-B
	Metallic barrel	SHCBA-FSP-B
Funnel with hinged lid for solvent reservoir with one outlet of 6.4 mm (1/4") and one air check valve	GL45	SHC45-FSP-A
	S55	SHC55-FSP-A
	S60	SHC60-FSP-A
	NALGENE® B53	SHCB53-FSP-A
	Metallic barrel	SHCBA-FSP-A
Funnel with hinged lid for solvent reservoir with one outlet of 3.2 mm (1/8") and one air check valve	GL45	SHC45-FSP-C
	S55	SHC55-FSP-C
	S60	SHC60-FSP-C
	NALGENE® B53	SHCB53-FSP-C
	Metallic barrel	SHCBA-FSP-C

Create your own reference !

SHC55 - FSP - B

Thread type → Tube outer diameter

Outlets : A = 1/4", B = 3/16", C = 1/8"

SMART HEALTHY CAPS

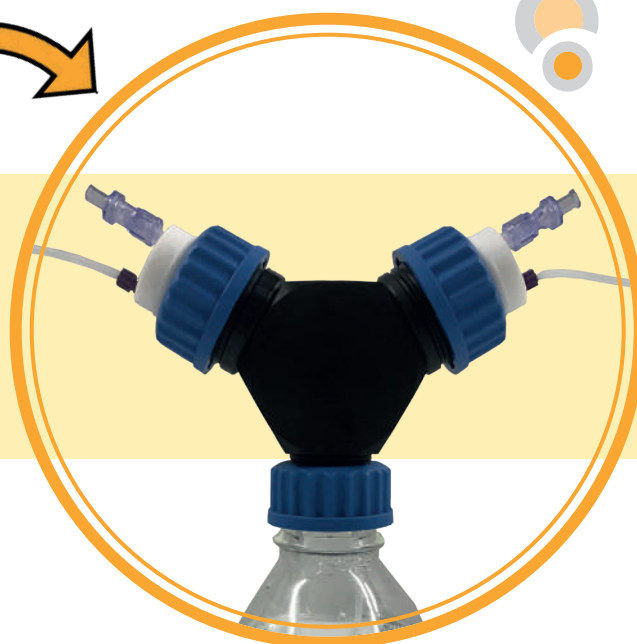
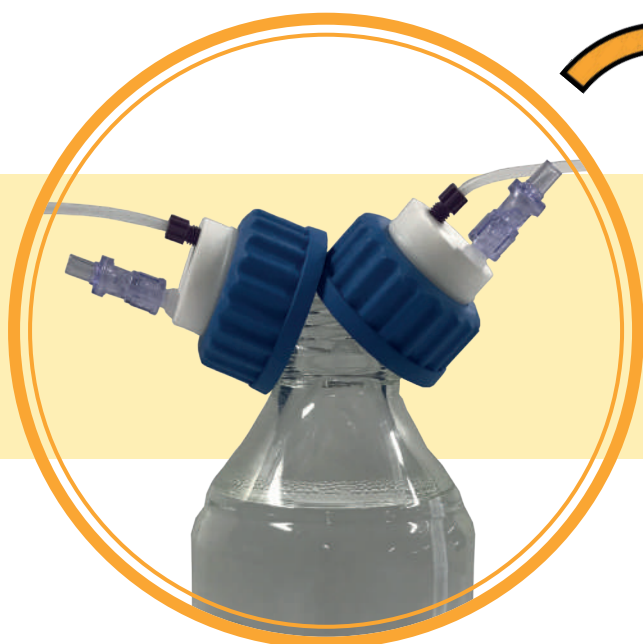
ADAPTERS WITH MULTIPLE WAYS

MULTI-WAYS ADAPTER ALLOWING TO CONNECT A BOTTLE WITH A GL45 THREAD TO 2 & 4 GL45 SAFETY CAPS*

The multi-ways adapter allows several channels to be purged in the eluent bottle while remaining airtight.

BEFORE...

AFTER!



* Also available for other threads of bottles and cans



AD-2T-GL45
for 2 SHC



AD-4T-GL45
for 4 SHC

SMART HEALTHY CAPS

ADAPTERS

OPERATING PRINCIPLE

We can supply you with all types of adapters not described in the catalog.
Do not hesitate to ask us!



32 mm

GL32 bottle
Measures 32 mm for
external threads.

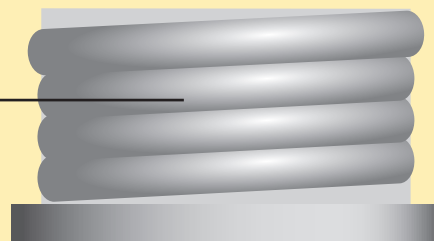
Smart Healthy Caps GL45



38 mm

GL38 bottle
Measures 38 mm for
external threads.

Adapter



45 mm

GL45 bottle
Measures 45 mm for
external threads.

Thread



SMART HEALTHY CAPS

CLASSIC ADAPTERS

To connect a GL45 cap on a bottle with a different thread.

THREAD*	To**	MATERIAL	REFERENCE
GL40	GL45	PTFE	AD-40-45-T
GL40	GL45	PP	AD-40-45-P
GL32	GL45	PTFE	AD-32-45-T
GL32	GL45	PP	AD-32-45-P
GL38	GL45	PTFE	AD-38-45-T
GL38	GL45	PP	AD-38-45-P



AD-40-38-P



AD-40-45-P



AD-38-45-T

PTFE : Teflon.

PP : Polypropylene.

* Bottle thread

** Cap's Thread : Smart Healthy Caps.

NOTES

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SMART HEALTHY CAPS

BOTTLE

DURAN® GL45 BOTTLE

A complete range of solvent bottles perfectly adapted for GL45 Smart Healthy Caps.

GL250-C



GL2000-C



GL500-C



GL1000-C



VOLUME (mL)	GLASS	REFERENCE
250	Clear	GL250-C
250	Amber	GL250-A
500	Clear	GL500-C
500	Amber	GL500-A
1000	Clear	GL1000-C
1000	Amber	GL1000-A
2000	Clear	GL2000-C
2000	Amber	GL2000-A
5000	Clear	GL5000-C
5000	Amber	GL5000-A

SMART HEALTHY CAPS

ACCESSORIES : AIR CHECK VALVE

All our Smart Healthy Caps are equipped with a standard air check valve.

For optimal use, it is recommended to **change the air check valve once a year!**

STANDARD AIR CHECK VALVE

For organo-aqueous eluents.

Weak and strong acidic eluents.

Non-amino basic eluents.

Polar & apolar eluents.

Maximum recommended flow: 100mL / min

REFERENCE	QTY
SHC-SV	1
SHC-SV10	10
SHC-SV50	50



SHC-SV-PREP

AIR CHECK VALVE FOR PREPARATIVE HPLC

Same characteristics as the standard air check valve but for HPLC systems with very high flow rates (>100mL / min and <500mL / min).

AIR CHECK VALVE FOR BASIC AMINE SOLVENTS

Same characteristics as the standard air check valve, but essential for the use of eluents containing bases with high pKa (triethylamine) or high concentrations (ammonia).

REFERENCE	QTY
SHC-SV-AB	1
SHC-SV-AB10	10
SHC-SV-AB50	50

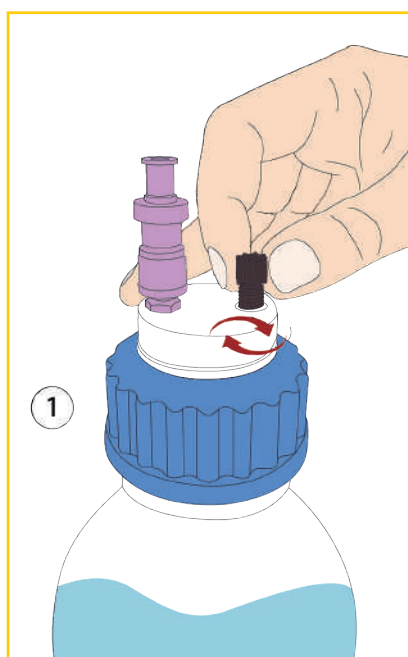


SMART HEALTHY CAPS

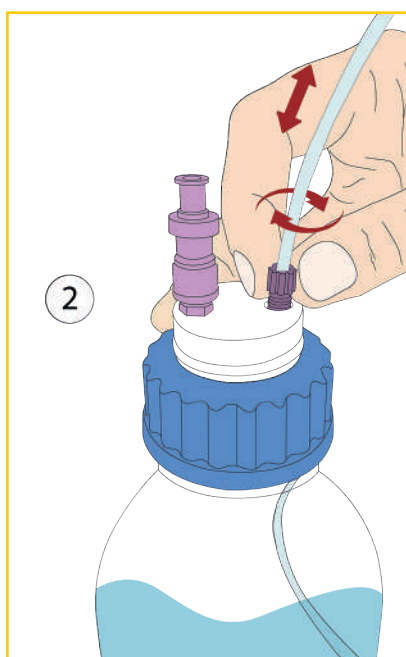
ACCESSORIES : THE UNIVERSAL CAPILLARY CONNECTOR

- Facilitates the connection of capillary tubes from 1 mm to 3,2 mm (1/8")
- The universal capillary connector replaces the entire fitting + ferrule 1/8" and 1/16"
- The universal capillary connector ensures excellent sealing

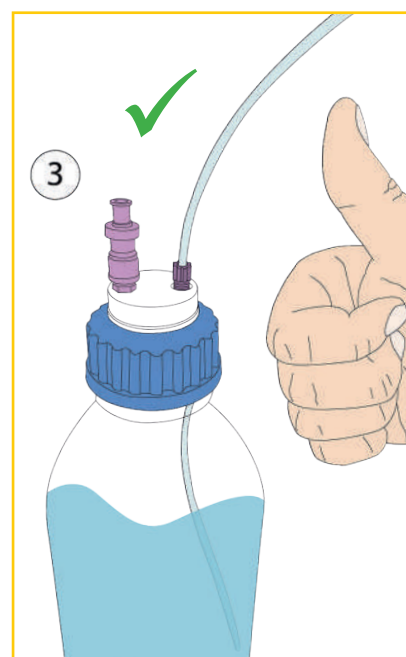
GUIDE FOR UNIVERSAL CAPILLARY CONNECTOR CHANGE:



- Insert the universal capillary connector into its proper thread, without fully tightening it.



- Insert your tube into the universal capillary connector, adjust its length and then screw the fitting until the tube stops



- Installation completed!

DESCRIPTION	FOR TUBE (OD)	COLOR	QTY/PK	REFERENCE
Universal capillary connector, Type I Black	for 1/16" to 1mm	Black	5	CC-ONE-1BL
Universal capillary connector, Type I Purple	for 1/16" to 1mm	Purple	5	CC-ONE-1V
Universal capillary connector, Type II Black	for 1/8" to 1/16"	Black	5	CC-ONE-2BL
Universal capillary connector, Type II Purple	for 1/8" to 1/16"	Purple	5	CC-ONE-2V

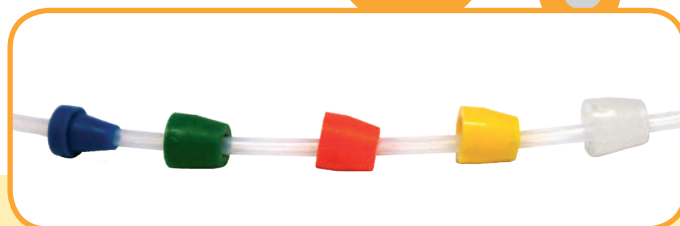


SMART HEALTHY CAPS






ACCESSORIES

NUTS AND FERRULES FOR 1/8" AND 1/16"

Ferrules 1/8", ref : F18. Flangefree fitting for ferrule 1/8" OD.
 Ferrules 1/16", ref : F16. Flangefree fitting for ferrule 1/16" OD.



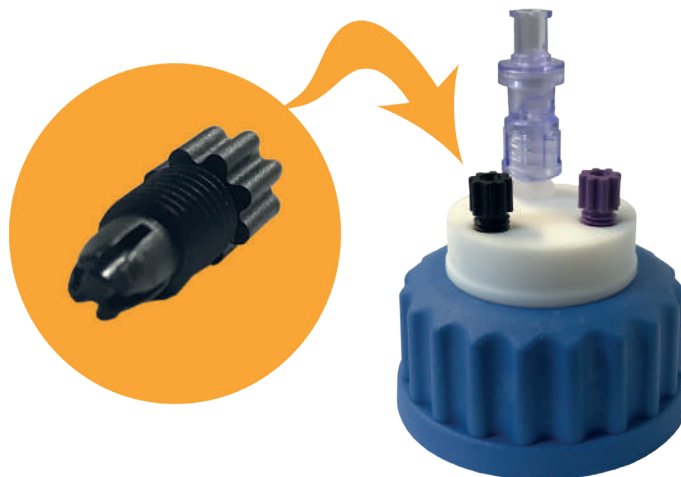
* Please join to the reference the color you want.
 For example : R18-N for black nuts.

Red : R 
 Blue: B 
 Green: G 
 Purple: P 
 Black: N 

TUBE (OD)		REFERENCE NUTS	REFERENCE FERRULES
INCH	MILLIMETER	PER 10 UNITS *	PER 10 UNITS
1/4"	6,3 mm	R14	F14
3/16"	4 mm	R316	F316
1/8"	3,2 mm	R18	F18
	2,5 mm	R18	F25
1/16"	1,6 mm	R16	F16
	1,0 mm	R16	F10

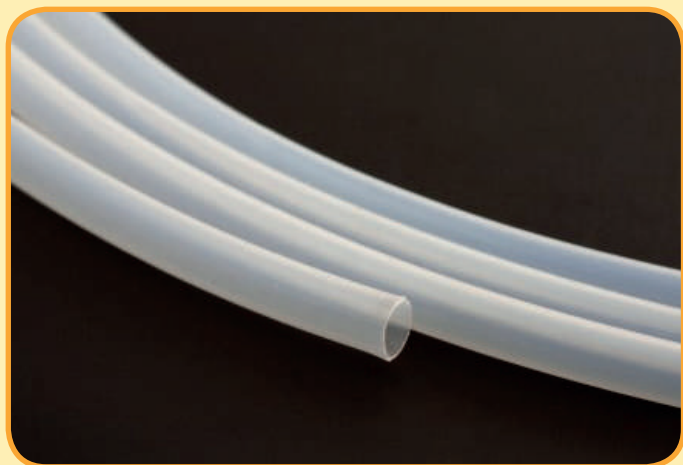
BLIND PLUG, ALLOWING YOU TO CLOSE AN UNUSED OUTLET OF YOUR SMART HEALTHY CAPS

FOR	REFERENCE	QUANTITY
Vis 1/8"	VP-F18	Par 10



SMART HEALTHY CAPS

PTFE TUBES



OD	ID	REFERENCE *	QUANTITY
1/4"	6,3 mm	TP14	1 meter
3/16"	3 mm	TP316	1 meter
1/8"	1,6 mm	TP18	1 meter
1/16"	1,0 mm	TP16	1 meter

TYGON™ TUBES



OD	ID	REFERENCE *	QUANTITY
9,5 mm	6,4 mm	TYG-64	1 meter
19,1 mm	12,7 mm	TYG-127	1 meter

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SMART WASTE CAPS

ACTIVATED CHARCOAL CARTRIDGE

ACTIVATED CHARCOAL CARTRIDGE FOR CANS FROM 2,5 TO 20 LITERS



Adapter to connect activated charcoal cartridge to Vaplock™ manifold



Each cartridge is delivered with a label on which you can write the commissioning date and the replacement date of your cartridge.

The replacement date depends on the quantity of activated charcoal in the cartridge.

* For each charcoal filter cartridge order, a time monitoring is delivered if you ask for. Just add the letter T at the end of the reference.

DESCRIPTION	QUANTITY OF CHARCOAL	DURATION	REF
Activated charcoal cartridge	25 gr	3 months	FC-25
Activated charcoal cartridge	50 gr	6 months	FC-50
Activated charcoal cartridge with a lid	50 gr	6 months	FC-50-C
Activated charcoal cartridge	100 gr	12 months	FC-100
Activated charcoal cartridge loaded with H ₂ SO ₄ for volatile base in waste eluants.	100 gr	6 months	FC-100-H2SO4
Activated charcoal cartridge loaded with KOH for volatile acid in waste eluants.	100 gr	6 months	FC-100-KOH

SMART WASTE CAPS

CARTRIDGE OF ACTIVATED CHARCOAL FOR METALLIC BARREL FROM 50 TO 200 LITERS

For a metallic barrel, a higher quantity of activated charcoal is needed. We propose you 2 models of filter depending on the volume of your metallic barrel.

DESCRIPTION	FOR A METALLIC BARREL OF	THREAD**	REFERENCE
Activated charcoal cartridge of 250 gr	50 L	2" - 3/4"	FC-250
Activated charcoal cartridge of 500 gr	200 L	2" - 3/4"	FC-500

* 3/4" for the small bung and 2" for the large bung.

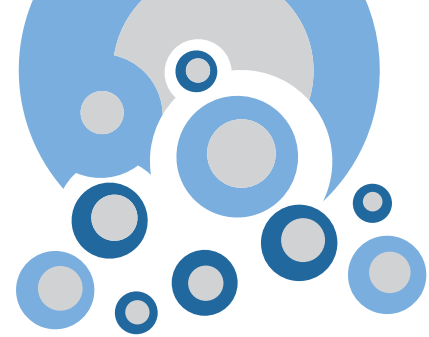
** For other types of thread on your barrel, please contact us directly.

A wide range of safety funnels is proposed to you page 46 to 55.



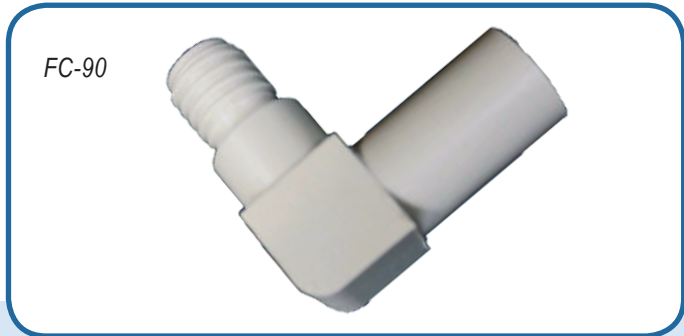
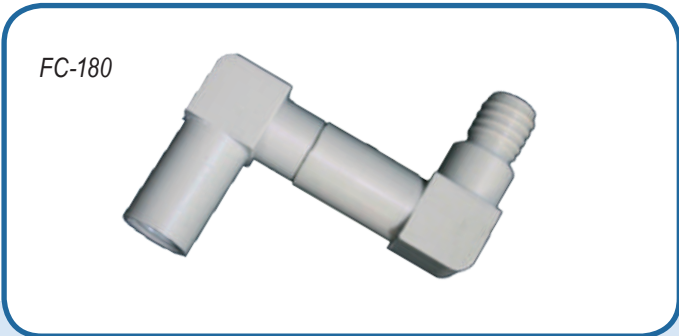
SMART WASTE CAPS

ACTIVATED CHARCOAL CARTRIDGE



ADAPTERS FOR ACTIVATED CHARCOAL CARTRIDGE

If you have a problem to place the can with the cartridge under the bench, we offer you 4 types of adapters which can be combined to solve all of you problems. You can see below few types of combinations. Other combinations are possible.



DESCRIPTION	REFERENCE
Straight extension long piece	FC-D
90° Adapter for angled connection	FC-90
Double angled connection adapter (combination of 2 FC-90)	FC-180
Straight extension long piece with 90° adapter for angled connection	FC-D-90



SMART WASTE CAPS

SPECIAL ADAPTERS* FOR JUSTRITE® CAN

* Allows to accept activated charcoal cartridge on JUSTRITE® can.



FC-AD-CPC



AD-CPC



FC-AD-JUST

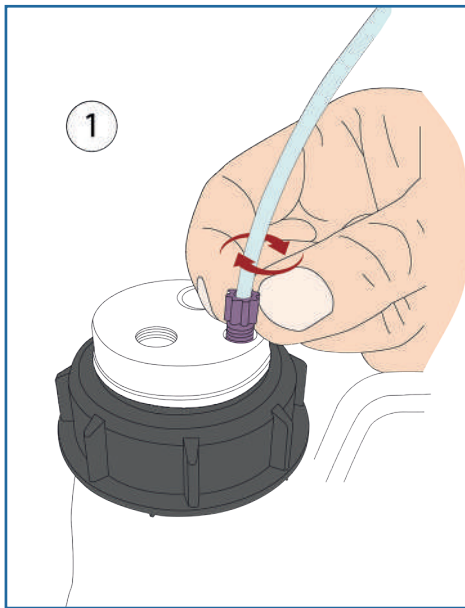


AD-D-JUST

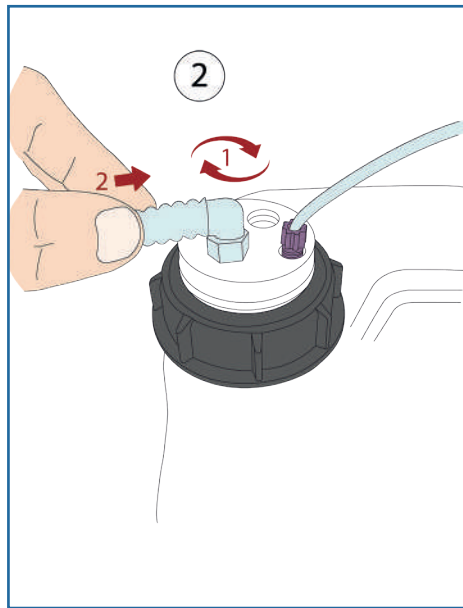
DESCRIPTION	REFERENCE
Adapter with 3 entries and a threaded barbed fitting for a direct CPC connectio	AD-CPC
Adapter with 3 entries and a threaded barbed fitting for a connection on JUSTRIT [®] can	AD-D-JUST
Adapter with an activated charcoal cartridge location for JUSTRITE [®] container	FC-AD-JUST
Adapter with an activated charcoal cartridge location for CPC connection	FC-AD-CPC

SMART WASTE CAPS

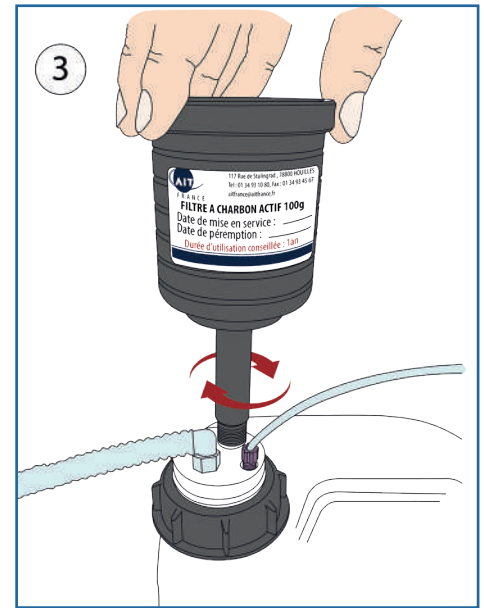
GUIDE FOR INSTALLING A SMART WASTE CAPS



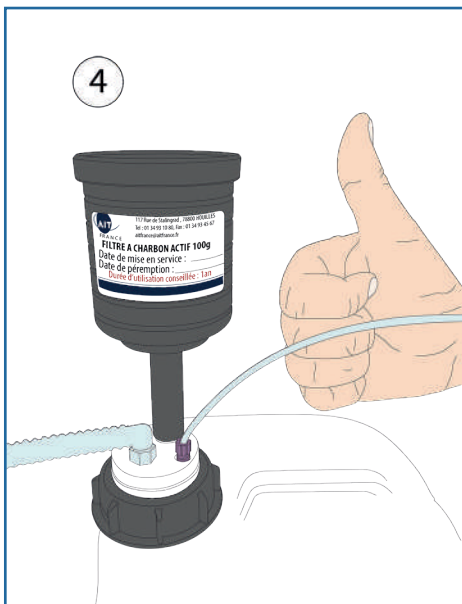
- Insert the universal capillary connector into its proper thread



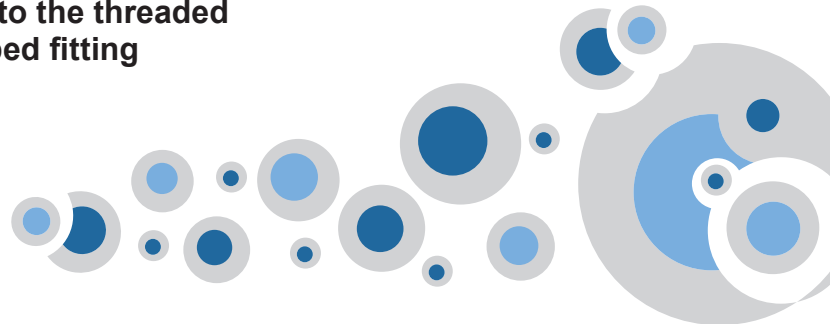
- Screw the threaded barbed fitting into its proper thread on your Smart Waste Cap. Connect your tube to the threaded barbed fitting



- Screw your activated charcoal cartridge into its proper thread on your Smart Waste Caps



- Installation completed!



And do not forget to indicate the date of commissioning and the expiration date of your activated charcoal cartridge to anticipate its renewal!

SMART WASTE CAPS

SMART WASTE CAPS FOR DIN 51 / S55

AIT Smart Waste Caps for DIN 51/S55 with their universal capillary connector (external diameter 1/8" to 1/16") and threaded barbed fitting 6 to 9 mm.



SW55-4-C : 4 entries 1/8" and charcoal cartridge emplacement



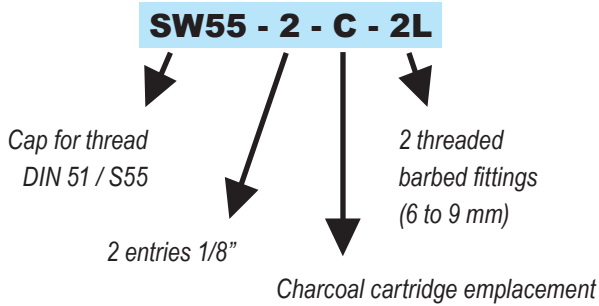
SW55-2-C-2L : 2 entries 1/8", 2 threaded barbed fittings and charcoal cartridge emplacement



SW55-1-C-3L : 1 entry 1/8", 3 threaded barbed fittings and charcoal cartridge emplacement

If you can't find the reference you want, then, create your own Smart Waste Cap even just for one item, without further cost.

Create your own reference !



SW55-4-C-1L : 4 entries 1/8", a charcoal cartridge emplacement and 1 threaded barbed fitting



SW55-5-C : 5 entries 1/8" and a charcoal cartridge emplacement



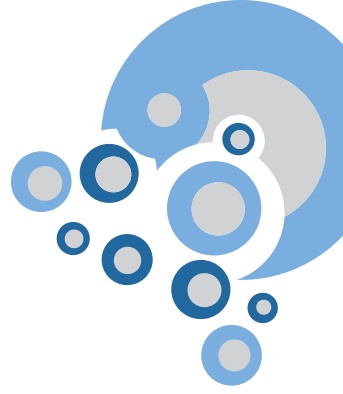
SW55-3-C-2L : 3 entries 1/8", a charcoal cartridge emplacement and 2 threaded barbed fittings



SW55-3-C-3L : 3 entries 1/8", a charcoal cartridge emplacement and 3 threaded barbed fittings

SMART WASTE CAPS

SMART WASTE CAPS THREADS



SMART WASTE CAPS FOR GL45

AIT Smart Waste Caps for GL45 with their universal capillary connector (outer diameter 1/8" to 1/16") and threaded barbed fitting.



SW45-2-C : 2 entries 1/8" and charcoal cartridge emplacement



SW45-5-C : 5 entries 1/8" and charcoal cartridge emplacement



SW45-4-C-1L : 4 entries 1/8", 1 threaded barbed fitting and charcoal cartridge emplacement



SW45-1-C-2L : 1 entry 1/8", 2 threaded barbed fittings and charcoal cartridge emplacement

If you can't find the reference you want, then, create your own Smart Waste cap even just for one item, without further cost.

Create your own reference !

SW45 - 2 - C - 2L

Cap for thread
GL45

2 entries 1/8"

2 threaded
barbed fittings
(6 to 9 mm)

Charcoal cartridge emplacement



SW45-C-2L : a charcoal cartridge emplacement and 2 threaded barbed fittings
30 A.I.T. FRANCE



SW45-1-C-1L : 1 entry 1/8", a charcoal cartridge emplacement and 1 threaded barbed fitting



SW45-2-C-2L : 2 entries 1/8", a charcoal cartridge emplacement and 2 threaded barbed fittings



SW45-C-3L : a charcoal cartridge emplacement and 3 threaded barbed fittings
<http://www.smartcaps.fr>

SMART WASTE CAPS

SMART WASTE CAPS THREADS

SMART WASTE CAPS BURKLE DIN50

Smart Waste Caps for space-saving cans S50 equipped with their universal capillary connector (outer diameter 1/8" to 1/16") and threaded barbed fitting 6 to 9 mm.



SWB-1-C-1L : 1 entry 1/8", 1 threaded barbed fitting and charcoal cartridge emplacement



SWB-3-C : 3 entries 1/8" and charcoal cartridge emplacement



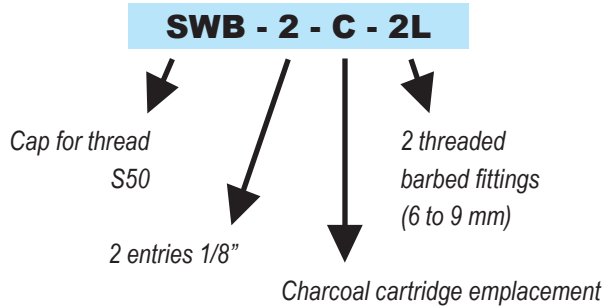
SWB-1-C-3L : 1 entry 1/8", 3 threaded barbed fittings and charcoal cartridge emplacement



SWB-5-C-1L : 5 entries 1/8", 1 threaded barbed fitting and charcoal cartridge emplacement

If you can't find the reference you want, then, create your own Smart Waste cap even just for one item, without further cost.

Create your own reference !



SWB-5-C : 5 entries 1/8" and charcoal cartridge emplacement



SWB-2-C-1L : 2 entries 1/8", 1 threaded barbed fitting and charcoal cartridge emplacement

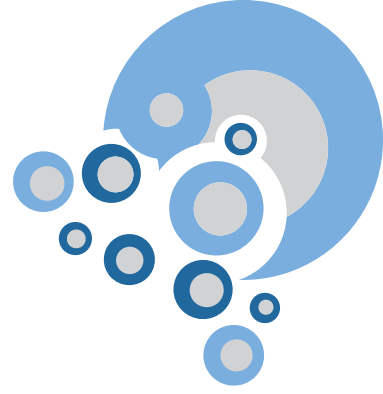


Space saving can (5 Liters)
Ref : BS-GP

SMART WASTE CAPS

SMART WASTE CAPS THREADS

SMART WASTE CAPS FOR DIN 60 / S61



AIT Smart Waste Caps for DIN 60/S61 with their universal capillary connector (outer diameter 1/8" to 1/16") and threaded barbed fitting 6 to 9 mm.



SW60-2-C : 2 entries 1/8" and charcoal cartridge emplacement



SW60-2-C-1L : 2 entries 1/8", 1 threaded barbed fitting and charcoal cartridge emplacement

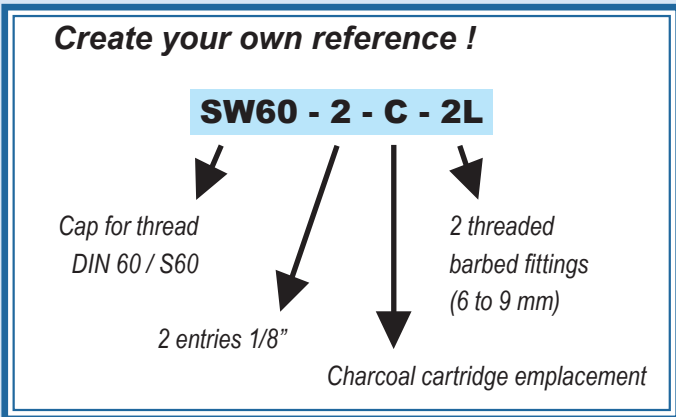


SW60-5-C-1L : 5 entries 1/8", 1 threaded barbed fitting and charcoal cartridge emplacement



SW60-1-C-4L : 1 entry 1/8", 4 threaded barbed fittings and charcoal cartridge emplacement

If you can't find the reference you want, then, create your own Smart Waste cap even just for one item, without further cost.



SW60-1-C-1L : 1 entry 1/8", a charcoal cartridge emplacement and 1 threaded barbed fitting



SW60-6-C : 6 entries 1/8" and a charcoal cartridge emplacement



SW60-2-C-4L : 2 entries 1/8", a charcoal cartridge emplacement and 4 threaded barbed fittings



SW60-C-1L : a charcoal cartridge emplacement and 1 threaded barbed fitting

SMART WASTE CAPS

SMART WASTE CAPS THREADS

SMART WASTE CAPS FOR DIN 90 / S90

AIT Smart Waste Caps for DIN 90/S90 with their universal capillary connector (outer diameter 1/8" to 1/16") and threaded barbed fitting 6 to 9 mm.



SW90-3-C : 3 entries 1/8" and charcoal cartridge emplacement



SW90-3-C-1L : 3 entries 1/8", 1 threaded barbed fitting and charcoal cartridge emplacement



SW90-3-C-2L : 3 entries 1/8", 2 threaded barbed fittings and charcoal cartridge emplacement



SW90-4-C-1L : 4 entries 1/8", 1 threaded barbed fitting and charcoal cartridge emplacement

If you can't find the reference you want, then, create your own Smart Waste cap even just for one item, without further cost.

Create your own reference !

SW90 - 2 - C - 2L

Cap for thread
DIN 90 / S90

2 entries 1/8"

2 threaded
barbed fittings
(6 to 9 mm)

Charcoal cartridge emplacement



SW90-4-C : 4 entries 1/8" and a charcoal cartridge emplacement



SW90-2-C : 2 entries 1/8" and a charcoal cartridge emplacement



SW90-2-C-1L : 2 entries 1/8", a charcoal cartridge emplacement and 1 threaded barbed fitting

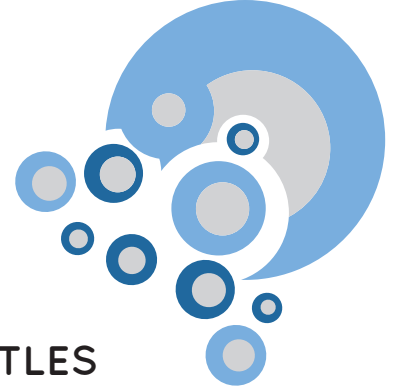


SW90-2-C-2L : 2 entries 1/8", a charcoal cartridge emplacement and 2 threaded barbed fittings



SMART WASTE CAPS

SMART WASTE CAPS THREADS



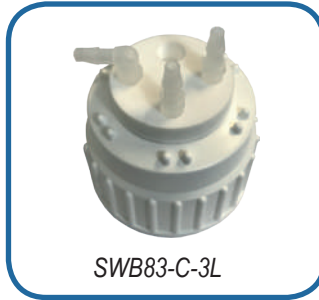
SMART WASTE CAPS FOR NALGENE'S® BOTTLES

AIT Smart Waste Caps for NALGENE's® bottles with their universal capillary connector (outer diameter 1/8" to 1/16") and threaded barbed fitting 6 to 9 mm.



THREAD REFERENCE

- B53 SWB53-C-1L
- B83 SWB83-C-1L



THREAD REFERENCE

- B53 SWB53-C-3L
- B83 SWB83-C-3L



THREAD REFERENCE

- B53 SWB53-2-C
- B83 SWB83-2-C

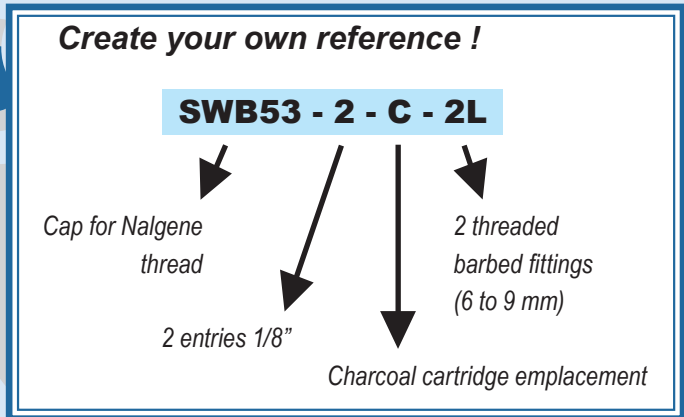


THREAD REFERENCE

- B53 SWB53-4-C-1L
- B83 SWB83-4-C-1L



If you can't find the reference you want, then, create your own Smart Waste Cap even just for one item, without further cost.



SMART WASTE CAPS

SMART WASTE CAPS THREADS



LEVEL INDICATOR

Thanks to the level indicator and its integrated floater, you can check immediately the can level.

The level indicator is absolutely necessary for all the opaque cans and the metallic barrel. We can also equipped the level indicator with fittings 1/8" or 1/16" and threaded barbed fitting 6 to 9 mm.

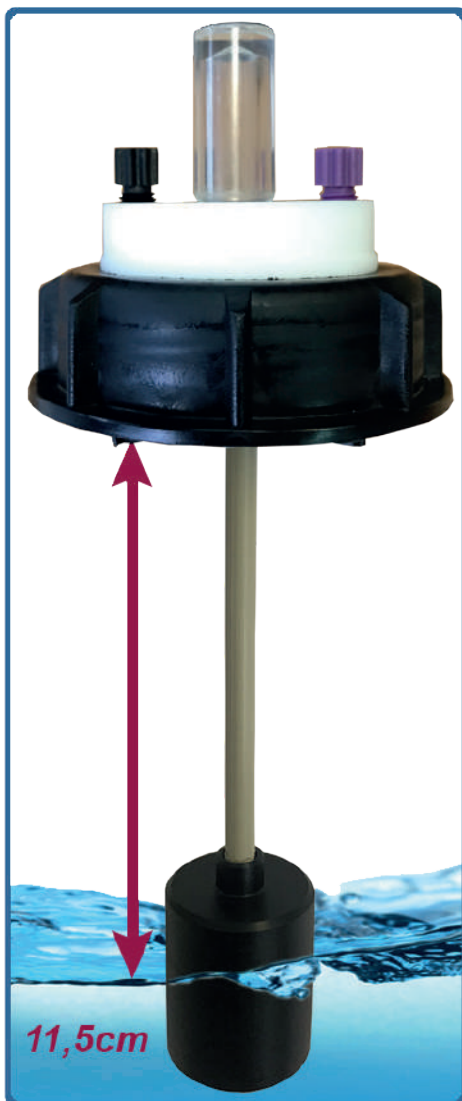
How it works ?

The level indicator is an option. So you can add it to the Smart Waste Caps reference that you want to equip.

For example, you want to equip the Smart Waste Cap following : SW45-2-C-1L with a level indicator. It becomes :

SW45-2-C-1L-LI

Please do not hesitate to contact us with any questions you may have.



SMART WASTE CAPS

SPECIAL DEMANDS

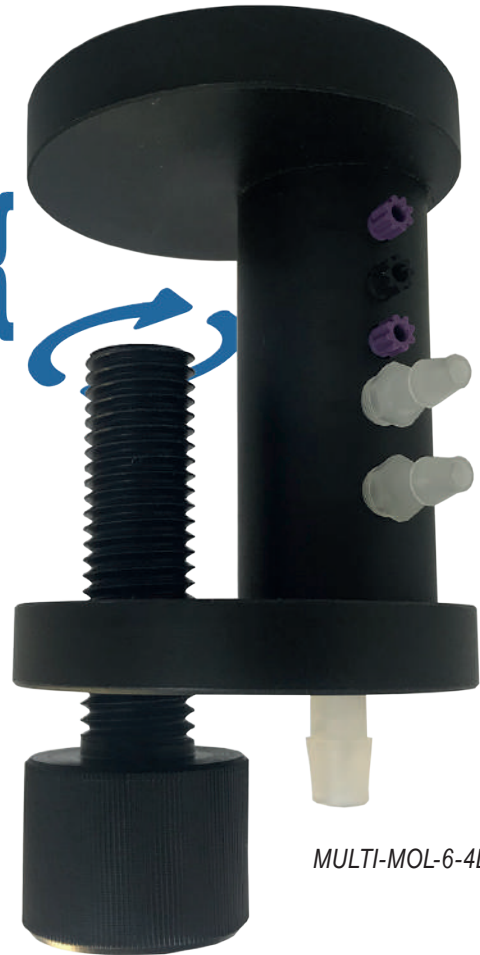
These 2 elements are easily fixed via their screw system and can go through the bench or be at the edge of the bench.

AD45-PAIL-1L



Through-hole adapter for SW45 caps with 1 outlet for threaded barbed fitting (6 to 9mm in standard)

Thickness of your bench (adjustable)



MULTI-MOL-6-4L

Multi-inlet system, 6 1/8" entries and 4 entries for tubes, with an outlet to a can under the bench (11 to 13mm in standard)



SPECIAL MANUFACTURING AT THE REQUEST OF ANY CAP OR ACCESSORY ACCORDING TO YOUR OWN SPECIFICATIONS: FROM A SINGLE TO NUMEROUS PIECES!

SMART WASTE CAPS

ADAPTERS

ALL TYPES OF ADAPTERS ARE POSSIBLE.

UNLIMITED COMBINATIONS! (AS FAR AS POSSIBLE)



45 mm

GL45 bottle
Measures 45 mm for external thread.



48 mm

S55 can
Measures 48 mm for external thread.

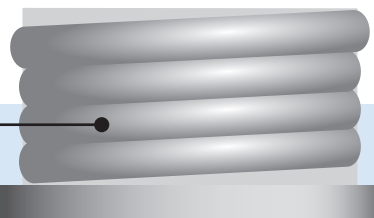


53 mm

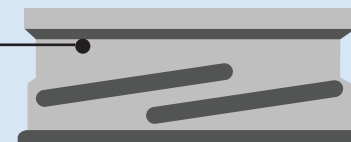
S60 can
Measures 53 mm for external thread.



SW45-C-1L



Adapter



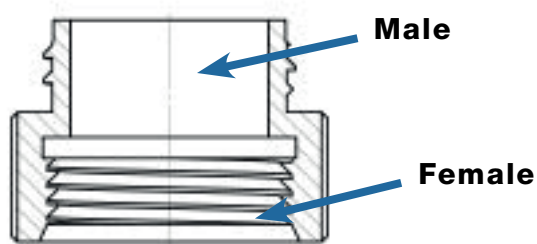
Thread

SMART WASTE CAPS

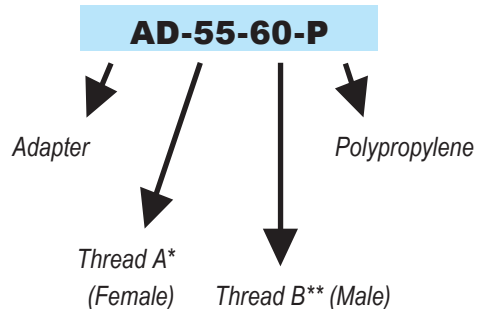
ADAPTERS

PP OR PTFE ADAPTERS FOR CANS EQUIPPED WITH A SMART WASTE CAPS

* PP : Polypropylene.



Create your own adapter!



*A = can thread

**B = Smart Waste Caps thread

THREAD A* (FEMALE)	THREAD B** (MALE)	REFERENCE***
GL45	GL32	AD-45-32-P
GL40	GL32	AD-40-32-P
GL45	GL38	AD-45-38-P
GL40	GL38	AD-40-38-P
GL40	GL45	AD-40-45-P
GL45	S55	AD-45-55-P
S55	S60	AD-55-60-P
S55	S90	AD-55-90-P
S60	S90	AD-60-90-P

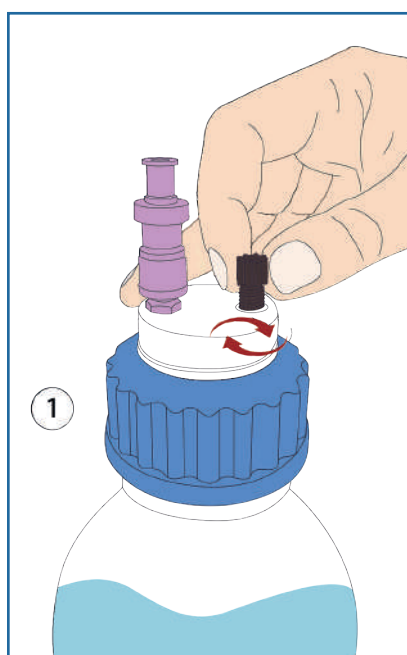
***also available in Teflon: for this, replace "P" with "T" in the reference of the desired product

SMART WASTE CAPS

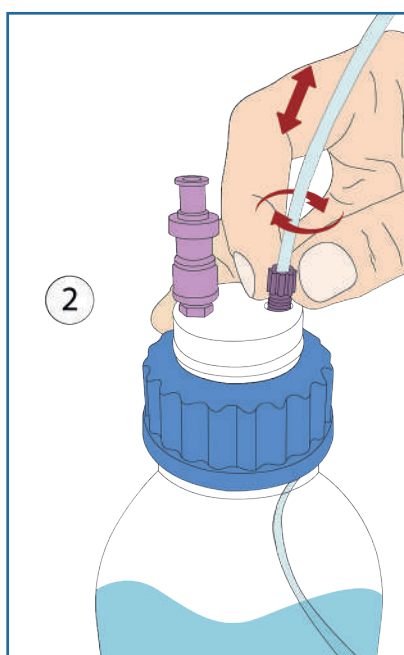
ACCESSORIES : THE UNIVERSAL CAPILLARY CONNECTOR

- Facilitates the connection of capillary tubes from 1 mm to 3,2 mm (1/8")
- The universal capillary connector replaces the entire nut + ferrule 1/8" et 1/16"
- The universal capillary connector ensures excellent sealing

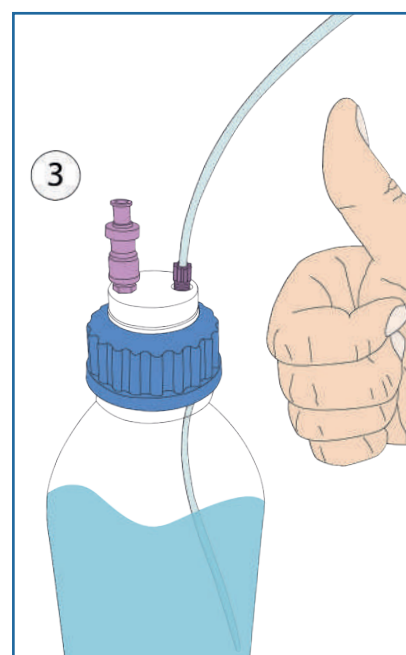
GUIDE TO CHANGE A UNIVERSAL CAPILLARY CONNECTOR :



- 1
- Insert the universal capillary connector into its proper thread, without fully tightening it.



- 2
- Insert your tube into the universal capillary connector, adjust its length and then screw the fitting until the tube stops



- 3
- Installation completed!

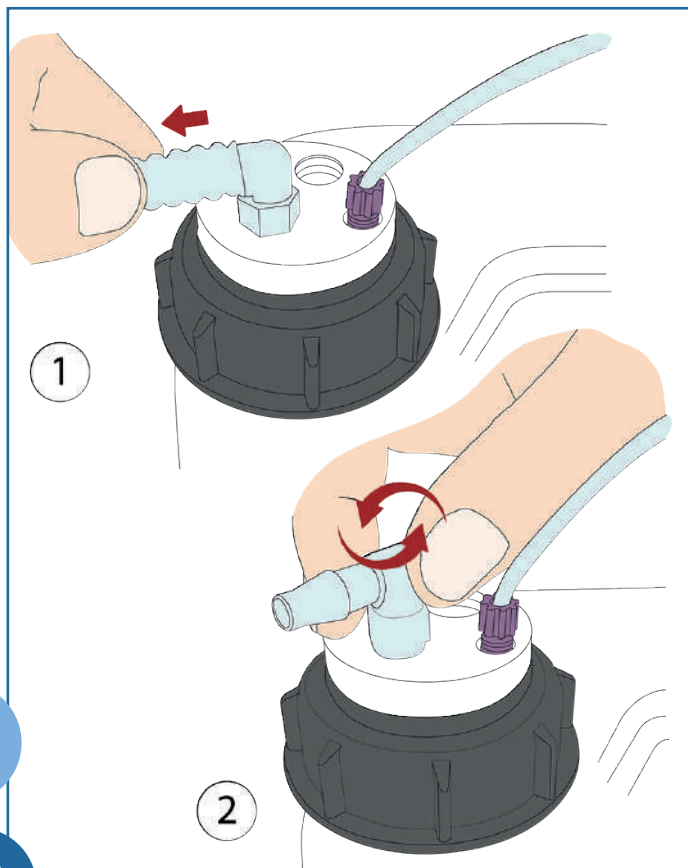
DESCRIPTION	FOR TUBES (OD)	COLOR	QTY/PK	REFERENCE
Universal capillary connector Type I Black	of 1/16" to 1mm	Black	5	CC-ONE-1BL
Universal capillary connector Type I Violet	of 1/16" to 1mm	Purple	5	CC-ONE-1V
Universal capillary connector Type II Black	of 1/8" to 1/16"	Black	5	CC-ONE-2BL
Universal capillary connector Type II Violet	of 1/8" to 1/16"	Purple	5	CC-ONE-2V



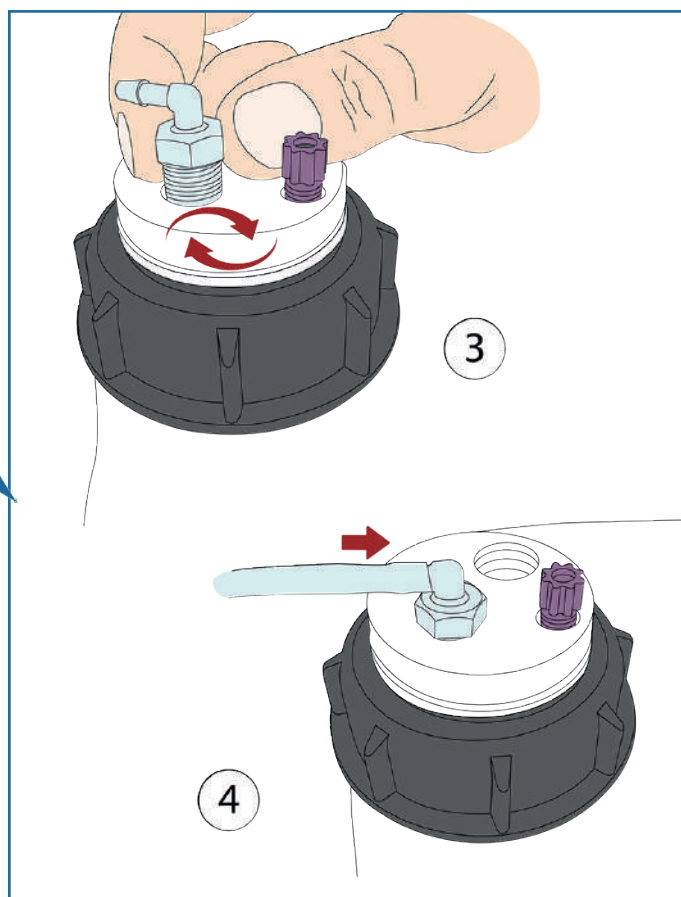
SMART WASTE CAPS

ACCESSORIES : *THREADED BARBED FITTINGS*

GUIDE FOR THREADED BARBED FITTING CHANGE :



Remove the tube from the threaded barbed fitting to change, and then unscrew the threaded barbed fitting.



Screw the new threaded barbed fitting and insert your new tube. Your new connection is ready!

SMART WASTE CAPS

ACCESSORIES : THREADED BARBED FITTINGS*

*The illustrations of the products are in CAD and are not contractual.
The threaded barbed fittings are made of translucent PP.



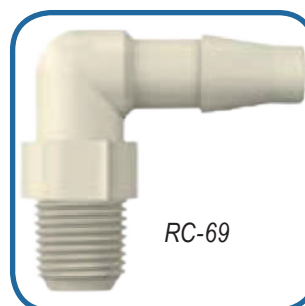
STRAIGHT THREADED BARBED FITTING / PER UNIT

DESCRIPTION	TUBE DIAMETER (ID)	REFERENCE
Straight threaded barbed fitting	3 to 4 mm	RD-34
Straight threaded barbed fitting	5 to 6 mm	RD-56
Straight threaded barbed fitting	6 to 9 mm	RD-69
Straight threaded barbed fitting	9 to 11 mm	RD-911



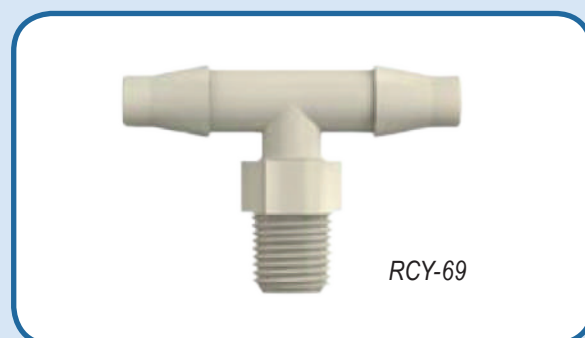
ANGLED THREADED BARBED FITTING / PER UNIT

DESCRIPTION	TUBE DIAMETER (ID)	REFERENCE
Angled threaded barbed fitting	3 to 4 mm	RC-34
Angled threaded barbed fitting	5 to 6 mm	RC-56
Angled threaded barbed fitting	6 to 9 mm	RC-69
Angled threaded barbed fitting	9 to 11mm	RC-911



DOUBLE ANGLED THREADED BARBED FITTING / PER UNIT

DESCRIPTION	ID	REFERENCE
Double angled threaded barbed fitting	5 to 6 mm	RCY-56
Double angled threaded barbed fitting	6 to 9 mm	RCY-69



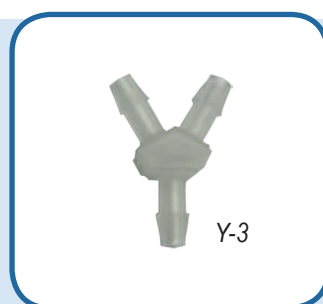
SMART WASTE CAPS

ACCESSORIES : CONNECTORS AND ADAPTERS



Y CONNECTORS*, PER UNIT

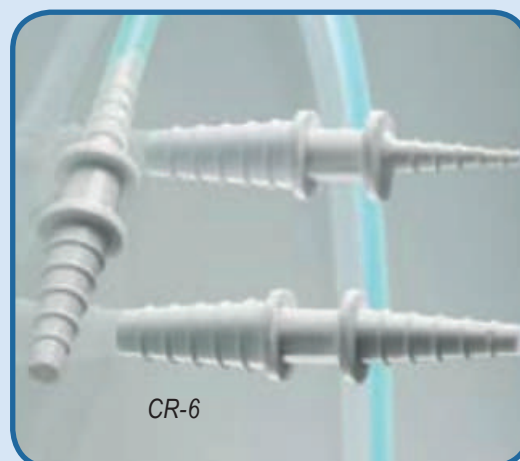
DESCRIPTION	TUBE ID	REFERENCE
Y-Connector 3 mm	3 mm	Y-3
Y-Connector 5 mm	5 mm	Y-5
Y-Connector 7 mm	7 mm	Y-7
Y-Connector 9 mm	9 mm	Y-9
Y-Connector 11 mm	11 mm	Y-11



CONICAL REDUCERS AND ADAPTERS

FOR DIFFERENT SIZES OF TUBES

INLET DIAMETER	OULET DIAMETER	REFERENCE
4,2 - 8 mm	4,2 - 8 mm	CR-1
10,5 - 16 mm	6,5 - 12 mm	CR-3
11 - 15 mm	7 - 12 mm	CR-6



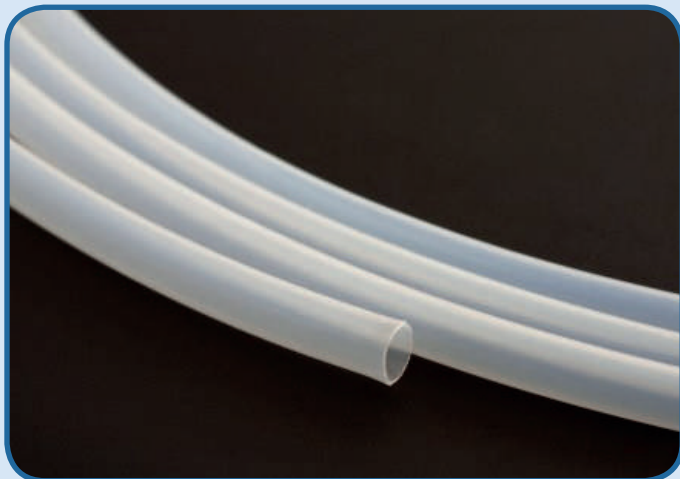
*The illustrations of the products are in CAD and are not contractual.
The connectors are made of translucent PP.

SMART WASTE CAPS

ACCESSORIES : TUBES AND BLIND PLUGS



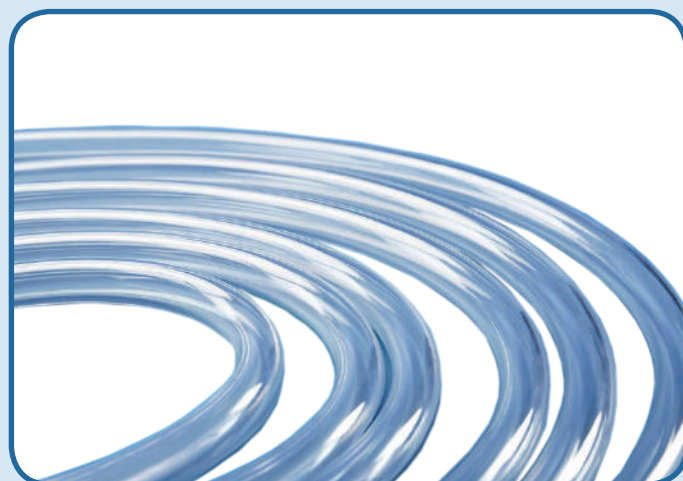
PTFE TUBES



OD	ID	REFERENCE*	QUANTITY
1/4"	6,3 mm	TP14	1 meter
3/16"	3 mm	TP316	1 meter
1/8"	1,6 mm	TP18	1 meter
1/16"	1,0 mm	TP16	1 meter

TYGON™ TUBES

OD	ID	REFERENCE*	QUANTITY
9,5 mm	6,4 mm	TYG-64	1 meter
19,1 mm	12,7 mm	TYG-127	1 meter



BLIND PLUGS

THEY CLOSE THE UNUSED INLETS OF YOUR SMART WASTE CAPS



VP-F18



VP-LEAK



VP-CA

FOR	REFERENCE	QUANTITY
1/8" or 1/16" fittin	VP-F18	Per 10
Threaded barbed fittin	VP-LEAK	Per 5
Charcoal cartridge fittin	VP-CA	Unit

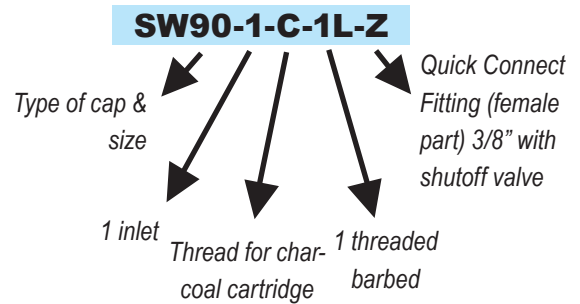
SMART WASTE CAPS

ACCESSORIES : QUICK CONNECT FITTINGS

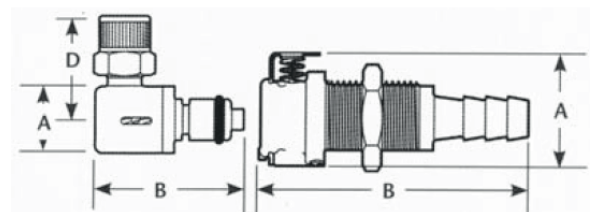


SMART HEALTHY CAPS OR SMART WASTE CAPS WITH QUICK CONNECT FITTINGS (WITH OR WITHOUT SHUTOFF VALVE)

Create your own reference!



A = Height/Diameter (mm)
 B = Total length (mm)
 D = Elbow radial length (mm)



FEMALE PART

DESCRIPTION	OUTLET	PASSAGE	REFERENCE	A	B
Quick Connect (female part) without shutoff valve	1/16" (1,6 mm)	3,2mm	S	22,35	35,56
	1/8" (3,2 mm)	3,2mm	T	22,35	41,91
	1/4" (6,4 mm)	3,2mm	U	22,35	46,99
	3/8" (9,5mm)	6,4mm	V	25,40	49,53
Quick Connect (female part) with shutoff valv	1/16" (1,6 mm)	3,2mm	W	22,35	35,56
	1/8" (3,2 mm)	3,2mm	X	22,35	41,91
	1/4" (6,4 mm)	3,2mm	Y	22,35	46,99
	3/8" (9,5mm)	6,4mm	Z	25,40	49,53

ASK US FOR ADVICE FOR YOUR CUSTOM CONFIGURATIONS!

SMART WASTE CAPS






ACCESSORIES : QUICK CONNECT FITTINGS

CHOOSE THE MALE QUICK CONNECT FITTING THAT BEST SUITS YOUR NEEDS AND MODULATE THE CONNECTION ACCORDING TO YOUR WISHES.

MALE PART

SW55-C-Z &
QC64-38-CD



TERMINATION	OUTLET	PASSAGE	REFERENCE WITH SHUTOFF	REFERENCE NO SHUTOFF	A	B	D
	1/16" (1,6mm)	3,2mm	QC32-116-CD-C	QC32-116-CD	12,70	20,32/ 37,34	-
	1/8" (3,2mm)	3,2mm	QC32-18-CD-C	QC32-18-CD	12,70	26,67/ 42,42	-
	1/4" (6,4mm)	3,2mm	QC32-14-CD-C	QC32-14-CD	12,70	30,48/ 43,43	-
	1/4" (6,4mm)	3,2mm	QC32-14-CC-C	QC32-14-CC	12,70	27,69/ 30,73	22,86
	1/4-28	3,2mm	QC32-14-TFP-C	QC32-14-TFP	18,29	39,37	-
	1/4" (6,4mm)	6,4mm	QC64-14-CD-C	QC64-14-CD	16,00	34,29/ 50,80	-
	3/8" (9,5mm)	6,4mm	QC64-38-CD-C	QC64-38-CD	16,00	34,29/ 46,23	-
	1/4" (6,4mm)	6,4mm	QC64-14-CC-C	QC64-14-CC	16,00	30,99/ 34,54	24,38
	3/8" (9,5mm)	6,4mm	QC64-38-CC-C	QC64-38-CC	16,00	32,51/ 36,06	24,38

BEWARE : MALE / FEMALE COMPATIBILITY IS ONLY ENSURED IF THE PASSAGE DIAMETER IS THE SAME FOR BOTH PARTS!

SAFETY FUNNELS

A WIDE RANGE TO MEET ALL YOUR NEEDS



SAFETY FUNNELS

A WIDE RANGE TO MEET ALL YOUR NEEDS



SAFETY FUNNELS.

FUNNEL WITH HINGED LID FOR RESIDUAL SOLVENTS

It is installed on a can or a barrel of residual solvent. It is practical and you can equip it with an activated charcoal cartridge if the storage is in a non-ventilated room.

The activated charcoal cartridge prevents the creation of an overpressure in the can if it is exposed to heat.



SW55-FSC*

**Activated charcoal cartridge sold separately (see page 24)*



SW55-FSB

DESCRIPTION	REFERENCE WITH CARTRIDGE*	REFERENCE WITHOUT CARTRIDGE
Smart Waste Caps funnel with hinged lid for can S55	SW55-FSC	SW55-FSB
Smart Waste Caps funnel with hinged lid for can S60	SW60-FSC	SW60-FSB
Smart Waste Caps funnel with hinged lid for can S90	SW90-FSC	SW90-FSB
Smart waste caps funnel with hinged lid for space-saving can S50	SWB-FSC	SWB-FSB
Smart Waste Caps funnel with hinged lid for metallic barrel	SWBA-FSC	SWBA-FSB

SAFETY FUNNELS

FUNNEL WITH HINGED LID FOR RESIDUAL SOLVENTS

This funnel has a double interest: the direct discharge through the funnel of all your waste, but also the collection of effluent from your HPLC systems with the integration of inlet fittings and / or threaded barbed fittings on the funnel.

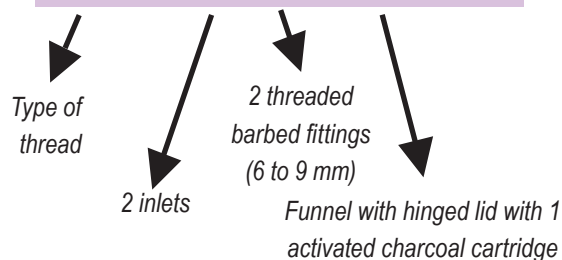
DESCRIPTION	THREAD	REFERENCE
Funnel with hinged lid with 1 activated charcoal cartridge, 2 inlets 1/8" (3.2mm) and 1 threaded barbed fitting (6 to 9mm)	S55	SW55-2-1L-FSC
	S60	SW60-2-1L-FSC
	S90	SW90-2-1L-FSC
	Metallic barrel	SWBA-2-1L-FSC
	Space-saving can	SWB-2-1L-FSC
Funnel with hinged lid with 1 activated charcoal cartridge, 2 inlets 1/8" (3.2mm) and 2 threaded barbed fittings (6 to 9mm)	S55	SW55-2-2L-FSC
	S60	SW60-2-2L-FSC
	S90	SW90-2-2L-FSC
	Metallic barrel	SWBA-2-2L-FSC
	Space-saving can	SWB-2-2L-FSC
Funnel with hinged lid with 1 activated charcoal cartridge, 2 inlets 1/8" (3.2mm) and 3 threaded barbed fittings (6 to 9mm)	S55	SW55-2-3L-FSC
	S60	SW60-2-3L-FSC
	S90	SW90-2-3L-FSC
	Metallic barrel	SWBA-2-3L-FSC
	Space-saving can	SWB-2-3L-FSC



*Activated charcoal cartridge sold separately (see page 24)

Create your own reference !

SW55 - 2 - 2L - FSC



For any special configuration (exemple: 2 entries of different diameters), contact us directly!

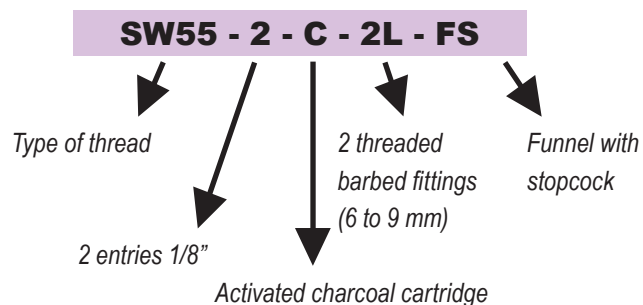
SAFETY FUNNELS

FUNNEL WITH STOPCOCK

It secures the storage of your residual solvents, equipped with an activated charcoal cartridge for filtration of unobstructed vapors. It is possible to add entries and / or threaded barbed fittings by creating your own reference (see below).

FOR CANS	REFERENCE
S51/55	SW55-C-FS
S60/61	SW60-C-FS

Create your own reference !

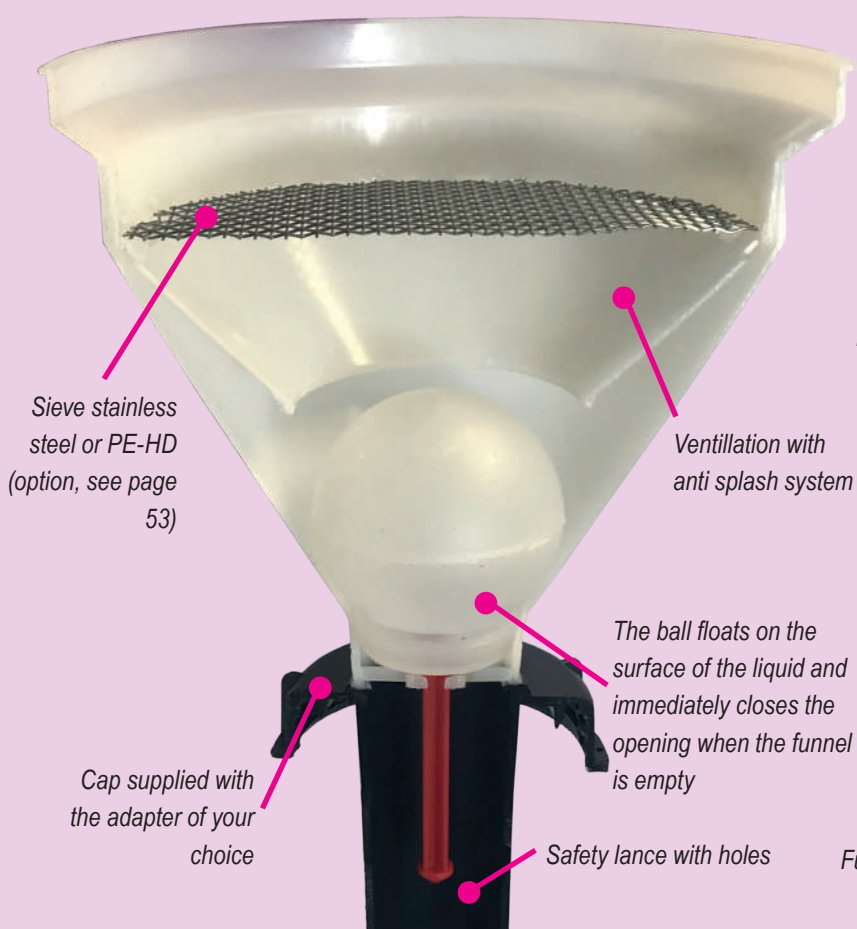


Note : Standard references are not equipped with additional inlets. For another configuration, follow the explanation above and create your own reference!

SAFETY FUNNEL

FUNNEL WITH BALL VALVE WITH HIGH SPILL CAPACITY

Funnel with ball valve allowing to quickly pour used solvents, for plastic can from 5 to 50L.



Funnel with ball valve with activated charcoal cartridge



Funnel with ball valve without activated charcoal cartridge

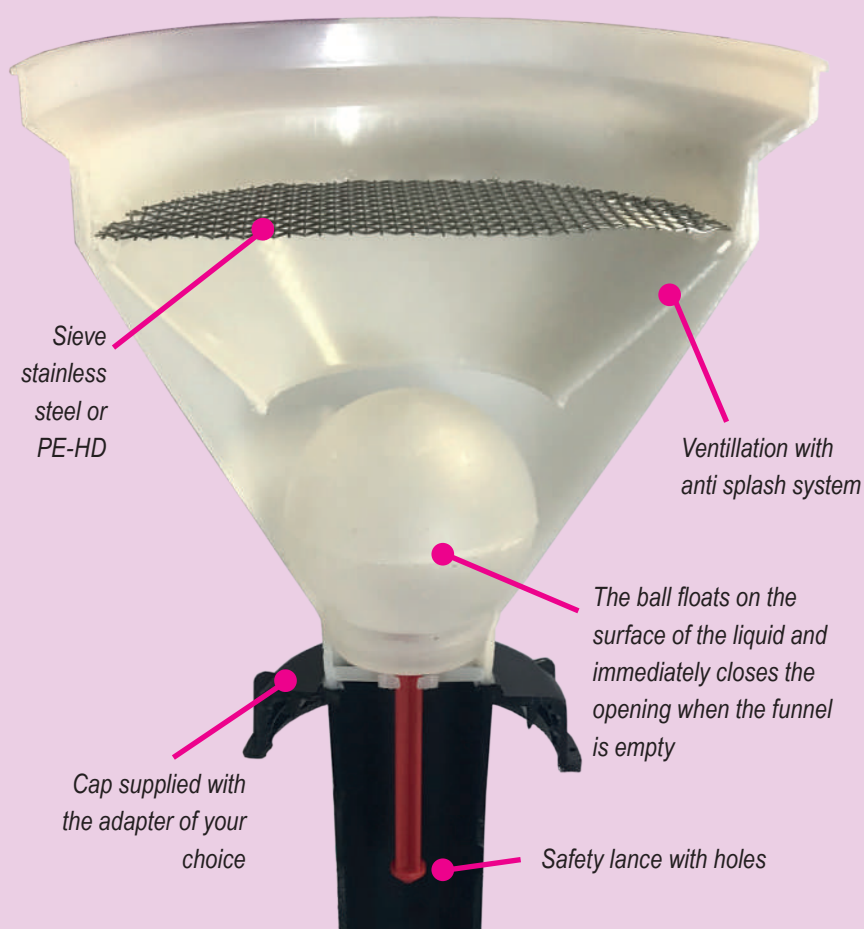
DESCRIPTION	REFERENCE WITHOUT CARTRIDGE	REFERENCE WITH CARTRIDGE *
Funnel with ball valve for can S55	ET55-B	ET55-C-B
Funnel with ball valve for can S60	ET60-B	ET60-C-B
Funnel with ball valve for can S90	ET90-B	ET90-C-B
Funnel with ball valve for space-saving can S50	ETB-B	ETB-C-B
Funnel with ball valve for metallic barrel	ETBA-B	ETBA-C-B

* Activated charcoal cartridge are to be ordered separately

SAFETY FUNNEL

FUNNEL WITH BALL VALVE WITH SMART WASTE CAP FONCTION

Funnel with ball valve for 5 to 20L can and metallic barrel, with or without external solvent inlet. It can be equipped with the same functions as a conventional Smart Waste Cap (threaded barbed fittings, activated charcoal cartridge, inlets) to directly receive the effluent from your HPLC chains without passing through the funnel.



ET55-3-C

Funnels with ball valve with activated charcoal cartridge



ET55-3-C-1L

For any other configuration, contact us directly!

DESCRIPTION	THREAD	REFERENCE
Funnel with ball valve with an adapter for the activated charcoal cartridge, 2 fittings 1/8" and 1 threaded barbed fitting (6 to 9 mm)	S55	ET55-2-C-1L
	S60	ET60-2-C-1L
	S90	ET90-2-C-1L
	NALGENE® B83	ETB83-2-C-1L

SAFETY FUNNEL

FUNNEL WITH BALL VALVE WITH HIGH SPILL CAPACITY FOR BARREL

DESCRIPTION	REFERENCE
Funnel with ball valve for metallic or plastic barrel	ETBA-B
Funnel with ball valve for metallic or plastic barrel + 1 threaded barbed fitting (6 to 9 mm	ETBA-1L
Funnel with ball valve for metallic or plastic barrel + 2 threaded barbed fittings (6 to 9 mm	ETBA-2L



ETBA-B + FC-250

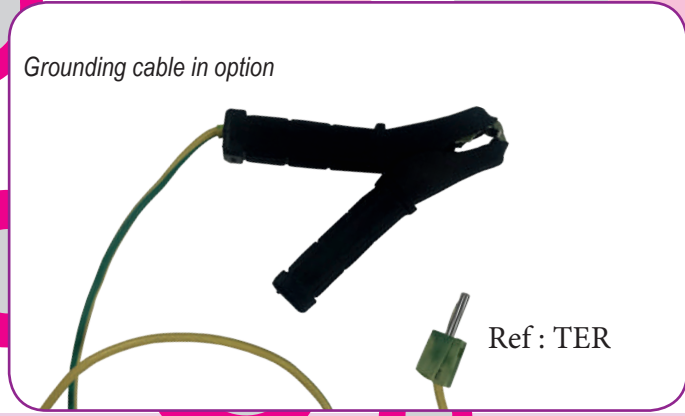
DESCRIPTION	REFERENCE
Sieve in polyethylene (HD-PE)	TAM-PE *
Sieve in stainless steel	TAM-LUX *

* Add the option reference at the end of the funnel reference.



SAFETY FUNNEL

ELECTRICALLY CONDUCTIVE FUNNEL WITH BALL VALVE



DESCRIPTION	THREAD	REFERENCE
Electrically conductive funnel with ball valve equipped with a stainless steel sieve	S55	ET55-B-EL
	S60	ET60-B-EL
	S90	ET90-B-EL
	NALGENE® B83	ETB83-B-EL
Electrically conductive funnel with ball valve equipped with a stainless steel sieve and an adapter for an activated charcoal cartridge	S55	ET55-C-EL
	S60	ET60-C-EL
	S90	ET90-C-EL
	NALGENE® B83	ETB83-C-EL

ELECTRO CONDUCTIVE CANS



VOLUME (LITER)	THREAD	REFERENCE
10	S60 / DIN 61	B10-61-EL
20	S60 / DIN 61	B20-61-EL
30	S60 / DIN 61	B30-61-EL

SAFETY FUNNEL

NOTES

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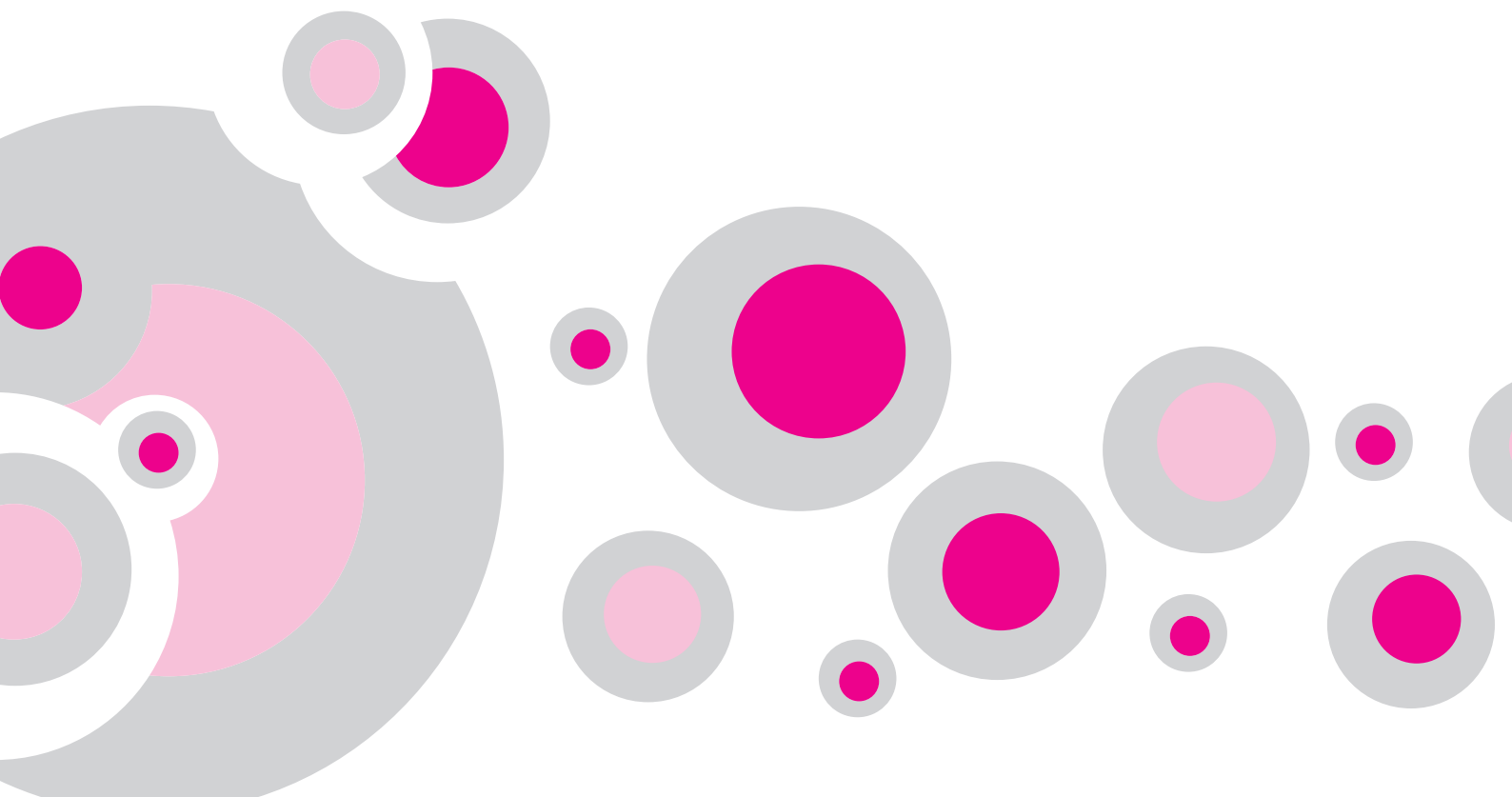
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RETENTION TRAYS & CANS

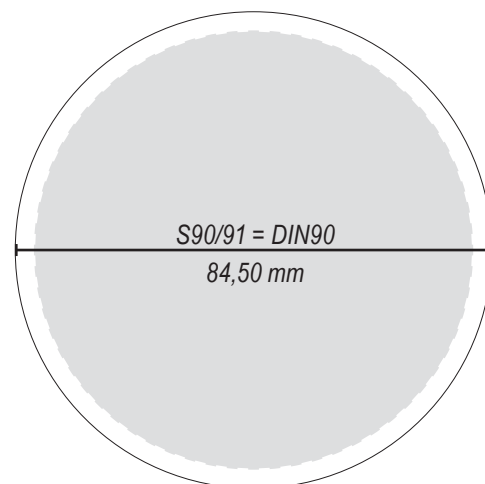
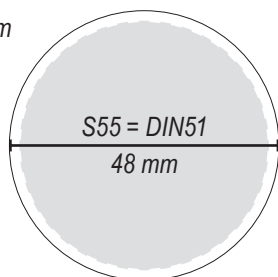
CANS IN *HD-PE* CHEMICALLY INERT

VOLUME (LITER)	THREAD	REFERENCE
2,5 L	GL45	B2-45
5 L	GL45	B5-45
5 L	S55	B5-55
10 L	S55	B10-55
20 L	S60 / DIN 60	B20-60
5 L (space-saving can)	S50 / DIN 50	BS-GP

How to determine the thread of your can?

* S = ISO's norm

* DIN = DIN's norm



LOOSENING WRENCH



RETENTION TRAYS & CANS

RETENTION TRAYS

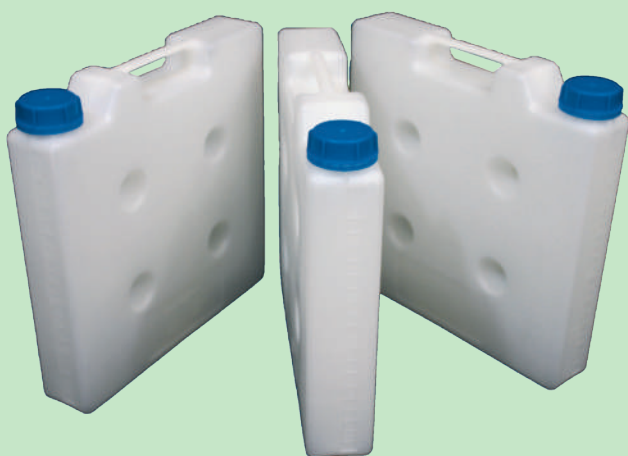
Avoid accidental overflow. A.I.T offers 3 sizes of retention trays. With a grid to keep the can dry.



DESCRIPTION	DIMENSION (MM)		CAPACITY	REFERENCE
	EXTERNAL	INTERNAL		
Little Retention Tray	H.70 × D.347 × W.230	D.280 × W.165	3L	BAC-R-3
Medium Retention Tray	H.75 × D.437 × W.285	D.380 × W.220	5L	BAC-R-5
Large Retention Tray	H.75 × D.485 × W.335	D.420 × W.265	8L	BAC-R-8

H : height
W : width
D : depth

SPACE-SAVING CAN IN HD-PE



BS-GP

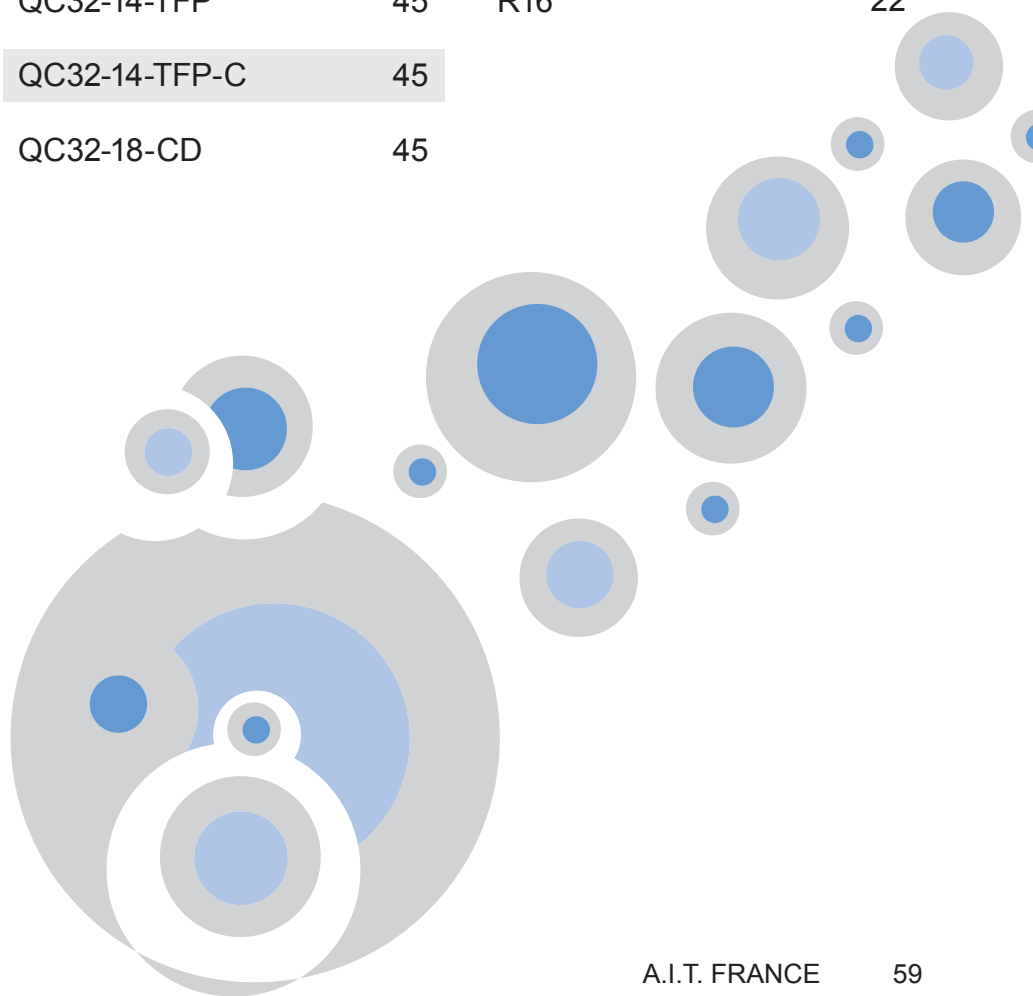
VOLUME (LITER)	THREAD
5	DIN 50
DIMENSION (MM) EXT.	REFERENCE
H. 335 x D. 335 x W. 65	BS-GP

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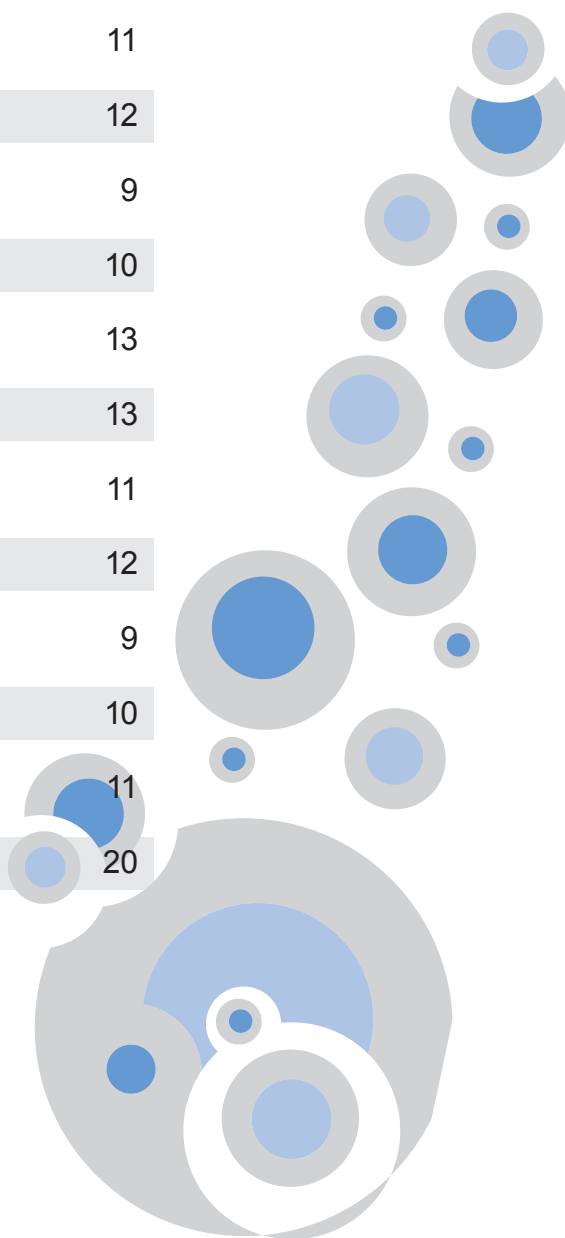
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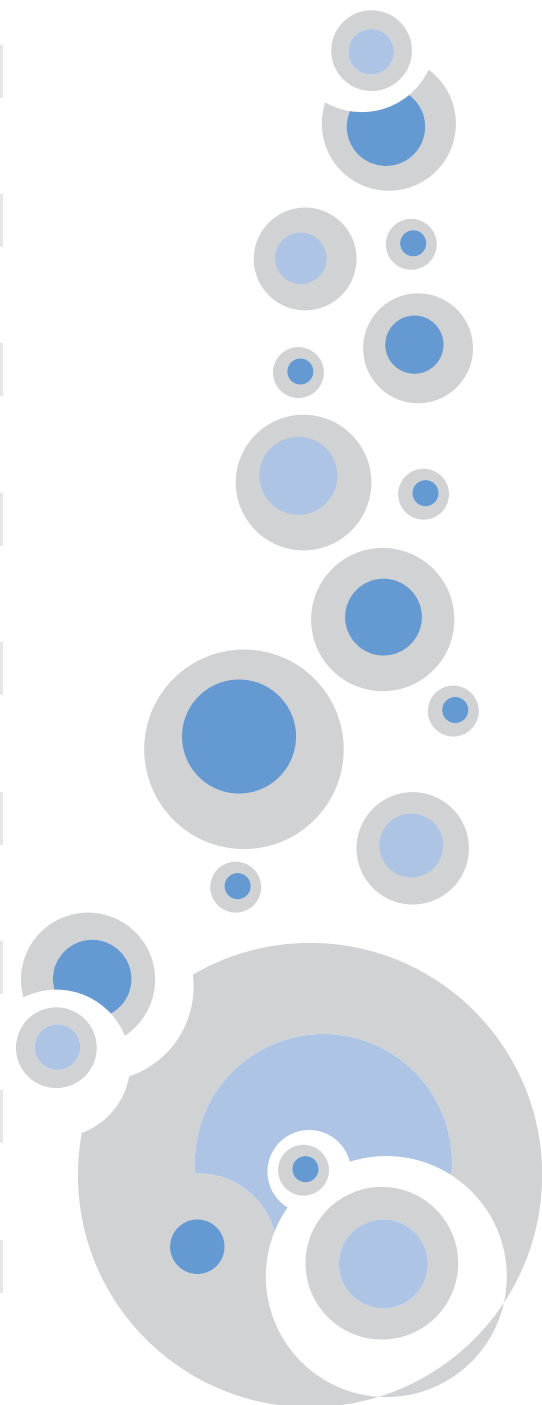


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