witeg Safety caps for HPLC

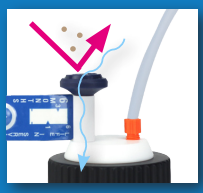
Security for little money

High performance liquid chromatography (HPLC) is a biochemical analysis method used to separate, identify and quantify substances in a mixture. Compared to simple column chromatography, HPLC separates the mixture of substances under pressure and possibly also under the influence of temperature with the help of two phases, a stationary and a mobile phase, faster and more precisely.

The mobile phase consists of solvents that are withdrawn from storage bottles. For reliable results **without contamination** from the environment on the one hand and to **protect the user from solvent vapors** on the other hand, it is necessary for these bottles to be equipped with special safety caps.

witeg offers a cost-effective solution for this: the complete safety system suitable for all GL 45 laboratory bottles and more.

Optimal efficiency
A time strip on top of the filter clearly shows usage time and indicates clearly when the filter needs to be changed.



Optimal protection
The safety system offers protection and ensures safer work in the laboratory. The integrated PTFE layer captures dust and other contaminants from the air.

Optimal Design
Allows easy, tool-free solvent replacement with freely rotating cap inserts and hand-tight fittings that prevent tubing from twisting when changing containers.

Safety caps GL 45

made of PTFE (PP)

Order number	8 257 201	8 257 202	8 257 203	8 257 204	8 257 205
Color	blue	blue	red	yellow	blue
Number of ports	2 ports	3 ports	3 ports	4 ports	2 ports
Suitable for	OØ 1/8 inch tubing				OØ 1/16 inch tubing

Order number	8 257 206	8 257 207	8 257 217	8 257 218	8 257 219
Color	red	yellow	black	black	black
Number of ports	3 ports	4 ports	2 ports	3 ports	4 ports
Incl. Accessories	-	-	1x air valve and 1 x 1/4”-28 fitting	1x air valve and 2 x 1/4”-28 fitting	1x air valve and 3 x 1/4”-28 fitting
Suitable for	OØ 1/16 inch tubing		OØ 1/8 inch tubing		

Safety cap GLS 60

made of PTFE (PP)

Order number	8 257 220
Color	black
Number of ports	2 (1x air valve)

Safety cap GLS 80

made of PTFE (PP)

Order number	8 257 280
Color	blue
Number of ports	4 (1x air valve)

Accessories

Suitable fittings

Order number	8 257 208	8 257 209	8 257 210	8 257 211
Suitable for	OØ 1/16 inch tubing	OØ 1/8 inch tubing	OØ 1/8 inch tubing	OØ 1/16 inch tubing
Color	natural	natural	orange	dark blue
Material	PEEK	PEEK	PEEK	PP
Thread	10-32unf	1/4-28	1/4-28	1/4-28

Order number	8 257 212	8 257 213	8 257 214	8 257 215
Suitable for	OØ 1/8 inch tubing	OØ 1/8 inch tubing	blind plug	blind plug
Color	red	dark blue	natural	black
Material	PP	PP	PEEK	PP
Thread	1/4-28	1/4-28	10-32unf	1/4-28

Air valve with lifetime display

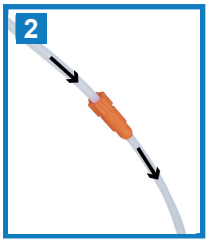
- 1/4“ thread

Order number
8 257 216

Activated carbon exhaust filter

- suitable for cap 8 257 220

Order number
8 257 221



Suitable vessels

Canisters

Canister, PE

- with screw cap
- stackable

Capacity	Neck	Dimensions	Order number
5 l	33 mm	L 195 x W 145 H 250 mm	**7 189 001**
10 l	33 mm	L 230 x W 190 x H 310 mm	**7 189 002**
20 l	49 mm	L 290 x W 250 x H 380 mm	**7 189 003**
30 l	49 mm	L 360 x W 280 x H 415 mm	**7 189 004**

Canister, PE-HD

- with screw cap
- stackable
- matched to Euro pallet
- DIN 60
- with UN Dangerous Goods Approval (UN 3H1/Y1.9)

Capacity	Neck	Dimensions	Order number
20 l	48 mm	L 290 x W 250 x H 380 mm	**7 189 103**
25 l	48 mm	L 290 x W 250 x H 460 mm	**7 189 104**
30 l	48 mm	L 360 x W 280 x H 415 mm	**7 189 105**

Laboratory bottles

witeg Laboratory bottles

- universally usable e.g. in the areas of storage, transport or sample preparation
- chemically resistant
- graduated
- with witeg logo
- with identification code
- made of borosilicate glass 3.3
- autoclavable and sterilizable due to its high thermal shock resistance
- ISO 4796-1
- USP standard
- clear glass or amber stained
- clear bottles incl. PP-screw cap and pouring ring

Capacity	Thread	Order number clear glass	Order number amber glass
50 ml	GL 32	**5 526 050 B**	**5 528 050 B**
100 ml	GL 45	**5 526 100 B**	**5 528 100 B**
250 ml		**5 526 250 B**	**5 528 250 B**
500 ml		**5 526 500 B**	**5 528 500 B**
1 000 ml		**5 526 001 B**	**5 528 001 B**
2 000 ml		**5 526 002 B**	**5 528 002 B**

Laboratory bottles, GLS 80

- easy and convenient filling and removal due to the large outer diameter of the bottle neck
- autoclavable and sterilizable due to its high thermal shock resistance
- without screw cap
- made of DURAN® glass

Capacity	Thread	Order number clear glass	Order number amber glass
500 ml	GLS 80	**5 527 600 GLS**	**5 528 600 GLS**
1000 ml		**5 527 601 GLS**	**5 528 601 GLS**
2000 ml		**5 527 602 GLS**	**5 528 602 GLS**

Suitable tubing

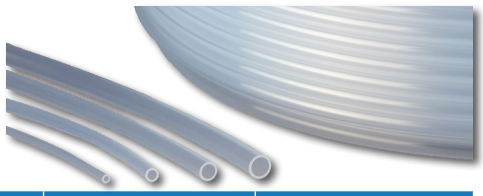
Tubing

PTFE tubing

- chemical resistance: universell
- temperature resistant from -200°C to +260°C

Outer diameter	Bending radius	Burst pressure	Inner diameter	Wall thickness	Order number
(1/16“) - 1.6 mm	6 mm	960 bar	0.5 mm	0.70 mm	**7 420 760**
(1/16“) - 1.6 mm	4 mm	606 bar	0.5 mm	0.65 mm	**7 420 761**
(1/16“) - 1.6 mm	5 mm	308 bar	0.5 mm	0.55 mm	**7 420 762**
(1/16“) - 1.6 mm	7 mm	140 bar	(1/32“) - 0.8 mm	0.40 mm	**7 420 763**
(1/16“) - 1.6 mm	**8** mm	84 bar	1.0 mm	0.30 mm	**7 420 764**
(1/8“) - 3.2 mm	13 mm	140 bar	(1/16“) - 1.6 mm	0.80 mm	**7 420 765**
(1/8“) - 3.2 mm	25 mm	46 bar	2.4 mm	0.40 mm	**7 420 766**

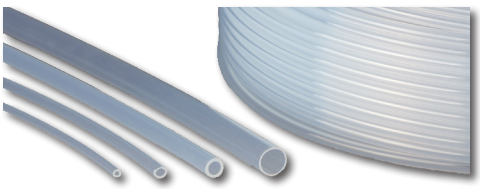
FEP tubing



- transparent
- chemical resistance: universell
- temperature resistant from -200°C to +205°C

Outer diameter	Bending radius	Burst pressure	Inner diameter	Wall thickness	Order number
(1/16“) - 1.6 mm	7 mm	112 bar	(1/32“) - 0.8 mm	0.40 mm	**7 420 770**
(1/8“) - 3.2 mm	13 mm	112 bar	(1/16“) - 1.6 mm	0.80 mm	**7 420 771**

PFA tubing



- transparent
- chemical resistance: universell
- temperature resistant from -200°C to +260°C

Outer diameter	Bending radius	Burst pressure	Inner diameter	Wall thickness	Order number
(1/16“) - 1.6 mm	7 mm	140 bar	(1/32“) - 0.8 mm	0.40 mm	**7 420 780**
(1/8“) - 3.2 mm	13 mm	140 bar	(1/16“) - 1.6 mm	0.80 mm	**7 420 781**