

SYRINGE FILTERS



Syringe filter, non sterile



Syringe filter, sterile



Syringe filter + microfiberglass pre-filter, non sterile



Syringe filter, sterile

● Our range of syringe filters come in 2 pore sizes: 0.22 or 0.45 μm . Each unit is carefully marked with both membrane type and pore size to avoid any confusion in your laboratory. The shell is made of polypropylene and is moulded with sample distribution rings in order to obtain an even distribution of the sample and hence a higher flow rate. The PP housing is assembled by injected molding; this production method gives the opportunity of inserting a colored ring for an easy recognition of the syringe filter in the laboratory (except for glass microfiber syringe filters: ultrasonically welded PP housing) and of reinforcing the body robustness during filtration process (minimized risk of opening under the syringe pressure). For sterilized goods, we use gamma-ray methods.





CA – Cellulose acetate

● The CA syringe filters have a hydrophilic membrane that allows the filtration of aqueous solutions, especially in biology. The sterile syringe filters are suitable for cell culture applications, for proteins or enzymes samples

► Chemical compatibility: pH 3-7

Pore size (µm) [for ø 25mm]	0.22 µm	0.45 µm	0.80 µm	1.20 µm	5.0 µm
Water flow (mL/mn@10psi)	50-65	92-116	220-260	250-300	468-518
Bubble point (psi)	41-51	36-39	15-18	11-14	6-7

CA 0.22 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13CA22C	SF13CA22M
	25 mm	SF25CA22L	—	SF25CA22M
	30 mm	SF30CA22L	—	SF30CA22M
	33 mm	SF33CA22L	—	SF33CA22M
	25 mm	SF25CAF22L	—	SF25CAF22M

CA 0.22 µm sterile	Ø Diameter	x50
	13 mm	SF13CA22S
	25 mm	SF25CA22S
	30 mm	SF30CA22S
	33 mm	SF33CA22S
	25 mm	SF25CAF22S

CA 0.45 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13CA45C	SF13CA45M
	25 mm	SF25CA45L	—	SF25CA45M
	30 mm	SF30CA45L	—	SF30CA45M
	33 mm	SF33CA45L	—	SF33CA45M
	25 mm	SF25CAF45L	—	SF25CAF45M

CA 0.45 µm sterile	Ø Diameter	x50
	13 mm	SF13CA45S
	25 mm	SF25CA45S
	30 mm	SF30CA45S
	33 mm	SF33CA45S
	25 mm	SF25CAF45S

CA 0.80 µm non sterile	Ø Diameter	x50	x100	x1000
	25 mm	SF25CA80L	SF25CA80C	SF25CA80M

CA 1.20 µm non sterile	Ø Diameter	x50	x100	x1000
	25 mm	SF25CA120L	SF25CA120C	SF25CA120M

CA 5.0 µm non sterile	Ø Diameter	x50	x100	x1000
	25 mm	SF25CA500L	—	SF25CA500M
	33 mm	SF33CA500L	—	SF33CA500M






FV – Glass microfiber

● The FV syringe filters present an excellent chemical compatibility and resist to organic solvents and strong acids. They are used in pre-filtration of viscous solutions or for filtration of separation of cells media before sterilization

➤ Chemical compatibility: pH 1-14.

FV 1-2 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13FV100C	SF13FV100M
	25 mm	SF25FV100L	—	SF25FV100M
	30 mm	SF30FV100L	—	SF30FV100M
	33 mm	SF33FV100L	—	SF33FV100M






MCE – Mixed cellulose esters



● Showing a good chemical resistance, MCE syringe filters are efficient in the filtration of proteins, enzymes and other aqueous solutions. The applications are various such as clarification, purification or sterilization of biological fluids.


➤ Chemical compatibility: pH 4-8.

Pore size (µm) [for ø 25 mm]	0.22 µm	0.45 µm
Water flow (mL/mn@10psi)	65-80	85-116
Bubble point (psi)	42-54	25-33

MCE 0.22 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13ME22C	SF13ME22M
	25 mm	SF25ME22L	SF25ME22C	SF25ME22M
	30 mm	SF30ME22L	—	SF30ME22M
	33 mm	SF33ME22L	—	SF33ME22M
	25 mm	SF25MEF22L	—	SF25MEF22M

MCE 0.22 µm sterile	Ø Diameter	x50
	13 mm	SF13ME22S
	25 mm	SF25ME22S
	30 mm	SF30ME22S
	33 mm	SF33ME22S

MCE 0.45 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13ME45C	SF13ME45M
	25 mm	SF25ME45L	SF25ME45C	SF25ME45M
	30 mm	SF30ME45L	—	SF30ME45M
	33 mm	SF33ME45L	—	SF33ME45M
	25 mm	SF25MEF45L	—	—

MCE 0.45 µm stérile	Ø Diameter	x50
	13 mm	SF13ME45S
	25 mm	SF25ME45S
	30 mm	SF30ME45S
	33 mm	SF33ME45S







NYL – Polyamide



● Naturally hydrophilic, with a good mechanical strength and strong absorption, the NYL syringe filters are suitable for the filtration of HPLC samples, filtration and clarification of solvents.



➤ Chemical compatibility: pH 3-14.


Pore size (µm) [for ø 25 mm]	0.22 µm	0.45 µm	0.80 µm	1.20 µm	3.0 µm
Water flow (mL/mn@10psi)	21-36	47-55	78-88	105-120	220-260
Bubble point (psi)	46-55	27-33	21-25	15-18	5-8


NYL 0.22 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13NY22C	SF13NY22M
	25 mm	SF25NY22L	SF25NY22C	SF25NY22M
	30 mm	SF30NY22L	—	SF30NY22M
	33 mm	SF33NY22L	—	SF33NY22M
	25 mm	SF25NYF22L	—	SF25NYF22M

NYL 0.22 µm sterile	Ø Diameter	x50
	13 mm	SF13NY22S
	25 mm	SF25NY22S
	30 mm	SF30NY22S
	33 mm	SF33NY22S
	25 mm	SF25NYF22S

NYL 0.45 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13NY45C	SF13NY45M
	25 mm	SF25NY45L	SF25NY45C	SF25NY45M
	30 mm	SF30NY45L	—	SF30NY45M
	33 mm	SF33NY45L	—	SF33NY45M
	25 mm	SF25NYF45L	—	SF25NYF45M

NYL 0.45 µm sterile	Ø Diameter	x50
	13 mm	SF13NY45S
	25 mm	SF25NY45S
	30 mm	SF30NY45S
	33 mm	SF33NY45S
	25 mm	SF25NYF45S

NYL 0.80 µm non sterile	Ø Diameter	x50	x100	x1000
	25 mm	SF25NY80L	—	SF25NY80M

NYL 1.20 µm non sterile	Ø Diameter	x50	x100	x1000
	25 mm	SF25NY120L	—	SF25NY120M

NYL 3.0 µm non sterile	Ø Diameter	x50	x100	x1000
	25 mm	SF25NY500L	—	SF25NY500M





PES – Polyethersulfone

● Made with a hydrophilic membrane, polyethersulfone syringe filters show both a high thermic and a great chemical resistance. Their water flow rate is ideal for alkaline liquid or organic solvent filtration. They can be used for a very fast filtration of viscous solutions.

✔ Chemical compatibility: pH 4-8.

Pore size (µm) [for ø 25 mm]	0.22 µm	0.45 µm
Water flow (mL/mn@10psi)	70-92	118-162
Bubble point (psi)	64-68	42-49

PES 0.22 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13PE22C	SF13PE22M
	25 mm	SF25PE22L	SF25PE22C	SF25PE22M
	30 mm	SF30PE22L	—	SF30PE22M
	33 mm	SF33PE22L	—	SF33PE22M
	25 mm	SF25PEF22L	—	SF25PEF22M

PES 0.22 µm sterile	Ø Diameter	x50
	13 mm	SF13PE22S
	25 mm	SF25PE22S
	30 mm	SF30PE22S
	33 mm	SF33PE22S

PES 0.45 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13PE45C	SF13PE45M
	25 mm	SF25PE45L	SF25PE45C	SF25PE45M
	30 mm	SF30PE45L	—	SF30PE45M
	33 mm	SF33PE45L	—	SF33PE45M
	25 mm	SF25PEF45L	—	SF25PEF45M

PES 0.45 µm sterile	Ø Diameter	x50
	13 mm	SF13PE45S
	25 mm	SF25PE45S
	30 mm	SF30PE45S
	33 mm	SF33PE45S





PP – Polypropylene

● Hydrophobic and with an excellent chemical stability, the PP syringe filters are suitable for HPLC samples containing weak solids or sterile filtration of samples of small volume.

➤ Chemical compatibility: pH 1-14.

Pore size (µm) [for ø 25 mm]	0.22 µm	0.45 µm
Water flow (mL/mn@10psi)	252-305	550-635
Bubble point (psi)	—	—

PP 0.22 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13PP22C	SF13PP22M
	25 mm	SF25PP22L	—	SF25PP22M
	33 mm	SF33PP22L	—	SF33PP22M
	25 mm	SF25PPF22L	—	SF25PPF22M

PP 0.22 µm sterile	Ø Diameter	x50
	13 mm	SF13PP22S
	25 mm	SF25PP22S
	33 mm	SF33PP22S

PP 0.45 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13PP45C	SF13PP45M
	25 mm	SF25PP45L	SF25PP45C	SF25PP45M
	33 mm	SF33PP45L	—	SF33PP45M
	25 mm	SF25PPF45L	—	SF25PPF45M

PP 0.45 µm sterile	Ø Diameter	x50
	13 mm	SF13PP45S
	25 mm	SF25PP45S
	33 mm	SF33PP45S



PVDF - Polyvinylidene

● PVDF syringe filters are hydrophobic and offer an excellent chemical resistance against most organic solvents and aggressive liquids. They are suitable for air and gas filtration.


➤ Chemical compatibility: pH 1-14.

Pore size (µm) [for ø 25 mm]	0.22 µm	0.45 µm
Water flow (mL/mn@10psi)	30-40	70-105
Bubble point (psi)	21-23	11-23

PVDF 0.22 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13PV22C	SF13PV22M
	25 mm	SF25PV22L	—	SF25PV22M
	33 mm	SF33PV22L	—	SF33PV22M
	25 mm	SF25PVF22L	—	SF25PVF22M

PVDF 0.22 µm sterile	Ø Diameter	x50
	13 mm	SF13PV22S
	25 mm	SF25PV22S
	33 mm	SF33PV22S

PVDF 0.45 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13PV45C	SF13PV45M
	25 mm	SF25PV45L	SF25PV45C	SF25PV45M
	33 mm	SF33PV45L	—	SF33PV45M
	25 mm	SF25PVF45L	—	SF25PVF45M

PVDF 0.45 µm sterile	Ø Diameter	x50
	13 mm	SF13PV45S
	25 mm	SF25PV45S
	33 mm	SF33PV45S






PTFE – Polytetra-fluorethylene



● Naturally hydrophobic, the PTFE syringe filters are used for air sterilization or for the preparation of HPLC samples, for the filtration of solvents and corrosive solutions. For aqueous solution filtration, you need to wet the membrane with an adapted solvent such as ethanol or methanol.


➤ Chemical compatibility: pH 1-14.


Pore size (µm) [for ø 25 mm]	0.22 µm	0.45 µm	3.0 µm
Water flow (mL/mn@10psi)	38-52	90-102	430-460
Bubble point (psi)	15-22	10-13	—

PTFE 0.22 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13PT22C	SF13PT22M
	25 mm	SF25PT22L	SF25PT22C	SF25PT22M
	30 mm	SF30PT22L	—	SF30PT22M
	33 mm	SF33PT22L	—	SF33PT22M
	25 mm	SF25PTF22L	—	SF25PTF22M

PTFE 0.22 µm sterile	Ø Diameter	x50
	13 mm	SF13PT22S
	25 mm	SF25PT22S
	30 mm	SF30PT22S
	33 mm	SF33PT22S

PTFE 0.45 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13PT45C	SF13PT45M
	25 mm	SF25PT45L	SF25PT45C	SF25PT45M
	30 mm	SF30PT45L	—	SF30PT45M
	33 mm	SF33PT45L	—	SF33PT45M
	25 mm	SF25PTF45L	—	SF25PTF45M

PTFE 0.45 µm sterile	Ø Diameter	x50
	13 mm	SF13PT45S
	25 mm	SF25PT45S
	30 mm	SF30PT45S
	33 mm	SF33PT45S

PTFE 3.0 µm non sterile	Ø Diameter	x10
	25 mm	SF25PT300X



RC - Regenerated cellulose

● RC syringe filters are recommended for the direct filtration of aqueous solutions or of any type of organic solvent. Their benefit is to offer a great capacity of particles extraction.

▶ Chemical compatibility: pH 3-12.

Pore size (µm) [for ø 25 mm]	0.22 µm	0.45 µm
Water flow (mL/mn@10psi)	30-38	53-74
Bubble point (psi)	59-70	45-49

RC 0.22 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13RC22C	SF13RC22M
	25 mm	SF25RC22L	SF25RC22C	SF25RC22M
	30 mm	SF30RC22L	—	SF30RC22M
	33 mm	SF33RC22L	—	SF33RC22M
	25 mm	SF25RCF22L	—	SF25RCF22M

RC 0.22 µm sterile	Ø Diameter	x50
	13 mm	SF13RC22S
	25 mm	SF25RC22S
	30 mm	SF30RC22S
	33 mm	SF33RC22S

RC 0.45 µm non sterile	Ø Diameter	x50	x100	x1000
	13 mm	—	SF13RC45C	SF13RC45M
	25 mm	SF25RC45L	SF25RC45C	SF25RC45M
	30 mm	SF30RC45L	—	SF30RC45M
	33 mm	SF33RC45L	—	SF33RC45M
	25 mm	SF25RCF45L	—	SF25RCF45M

RC 0.45 µm sterile	Ø Diameter	x50
	13 mm	SF13RC45S
	25 mm	SF25RC45S
	30 mm	SF30RC45S
	33 mm	SF33RC45S



Venting filters

● For a greater filtration surface than syringe filters, the venting filters (PTFE membrane, ø 47 mm, sterile) bare specific connections that are adapted for the direct connection to flexibles.

Code	FE47PT22S	FE47PT45S
Pore size (µm)	0.22 µm	0.45 µm
Ø (mm)	47	47
Bubble point	1.2	0.8
Type		
Quantity	X25	X25