

Фильтры шприцевые CARL ROTH Mini-Tip, CAMEO, Millex, CHROMAFIL

Технические характеристики

Алматы (7273)495-231
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
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
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Сургут (3462)77-98-35
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)74-02-29
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 (495)268-04-70

Казахстан (772)734-952-31

Киргизия (996)312-96-26-47



Syringe filters



Syringe filters ROTILABO® Mini-Tip

ROTH SELECTION.

With housing made of PP, ultrasonically welded, colourless. Ideally suitable for HPLC samples. The Mini-Tip opening is ideal for filtering in very small sample containers or vials.

Not a medical device / Not an IVD product

Cellulose acetate (CA)

Hydrophilic membrane with very low protein adsorption ($3.8 \mu\text{g}/\text{cm}^2$) for biological samples (e.g. enzyme solutions, biological macromolecules) and for clarification and sterile filtration of aqueous solutions.

Technical specifications:

Art. No.	PP52.1	PP53.1
Ø Membrane	15 mm	
Ø Housing	20 mm	
Housing material	PP	
Sample volume	1–10 ml	
Dead volume	<25 µl	
Total filter volume	0.335 ml	
Filtration area	1.77 cm ²	
Max. operating pressure	7 bar	
Inlet connection	Luer lock connector	
Outlet connection	Mini-Tip	

Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.
0,2	Non-sterile	15	PP52.1	100 unit(s)
0,45	Non-sterile	15	PP53.1	100 unit(s)

Nylon

For the filtration of HPLC and GC solvents and for purification and sterile filtration of aqueous, alkaline and organic solutions. Hydrophilic, resistant to many solvents. High mechanical stability.

Technical specifications:

Art. No.	PP43.1	PP44.1
Ø Membrane	15 mm	
Ø Housing	20 mm	
Housing material	PP	
Sample volume	1–10 ml	
Dead volume	<25 µl	
Total filter volume	0.335 ml	
Filtration area	1.77 cm ²	
Max. operating pressure	7 bar	
Inlet connection	Luer lock connector	
Outlet connection	Mini-Tip	

Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.
0,2	Non-sterile	15	PP43.1	100 unit(s)
0,45	Non-sterile	15	PP44.1	100 unit(s)

Polytetrafluoroethylene (PTFE)

Hydrophobic membrane for the filtration of aggressive chemicals, acids and non-polar solvents. Low flow resistance to gases, can therefore also be used for air and gas filtration (e.g. for aeration and ventilation work and for sterile gas exchange).

Technical specifications:

Art. No.	PP45.1	PP46.1
Ø Membrane	15 mm	
Ø Housing	20 mm	
Housing material	PP	
Sample volume	1–10 ml	
Dead volume	<25 µl	
Total filter volume	0.335 ml	
Filtration area	1.77 cm ²	
Max. operating pressure	7 bar	
Inlet connection	Luer lock connector	
Outlet connection	Mini-Tip	

Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.
0,2	Non-sterile	15	PP45.1	100 unit(s)
0,45	Non-sterile	15	PP46.1	100 unit(s)

Polyvinylidene fluoride (PVDF)

Slightly hydrophobic membrane for clarification and sterile filtration of organic and partially organic solutions. Protein adsorption $125 \mu\text{g}/\text{cm}^2$.

Technical specifications:

Art. No.	PP47.1	PP48.1
Ø Membrane	15 mm	
Ø Housing	20 mm	
Housing material	PP	
Sample volume	1–10 ml	
Dead volume	<25 µl	
Total filter volume	0.335 ml	
Filtration area	1.77 cm ²	
Max. operating pressure	7 bar	
Inlet connection	Luer lock connector	
Outlet connection	Mini-Tip	

Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.
0,2	Non-sterile	15	PP47.1	100 unit(s)
0,45	Non-sterile	15	PP48.1	100 unit(s)

Regenerated cellulose (RC)

Hydrophilic membrane with low non-specific adsorption performance for proteins ($<10 \mu\text{g}/\text{cm}^2$). For filtering biological solutions and for preparing samples and degassing eluents for HPLC. Good resistance to aqueous and organic solutions.

Technical specifications:

Art. No.	PP41.1	PP42.1
Ø Membrane	15 mm	
Ø Housing	20 mm	
Housing material	PP	
Sample volume	1–10 ml	
Dead volume	<25 µl	
Total filter volume	0.335 ml	
Filtration area	1.77 cm ²	
Max. operating pressure	7 bar	
Inlet connection	Luer lock connector	
Outlet connection	Mini-Tip	

Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.
0,2	Non-sterile	15	PP41.1	100 unit(s)
0,45	Non-sterile	15	PP42.1	100 unit(s)

Syringe filters



A 121 °C

Syringe filters CAMEO™

GVS. Autoclavable: Yes.

Not a medical device / Not an IVD product

Cellulose acetate (CA)

Hydrophilic. Very low protein binding (approx. 3.8 µg/cm²). For sterile filtration of biological media (proteins, enzymes, buffer, cell culture, etc.), as well as for particle extraction from aqueous and alcohol-based solutions.

Technical specifications:

Art. No.	AH54.1	AH52.1	AH53.1
Ø Membrane	30 mm		
Ø Housing	34 mm		
Housing material	PP		
Sample volume	10-120 ml		
Dead volume	<60 µl		
Filtration area	4.8 cm²		
Max. application temperature	80 °C		
Max. operating pressure	8 bar		
Inlet connection	Luer lock connector		
Outlet connection	Luer connector		

Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.
0,8	Non-sterile	30	AH54.1	50 unit(s)
0,22	Non-sterile	30	AH52.1	50 unit(s)
0,45	Non-sterile	30	AH53.1	50 unit(s)

Nylon

Hydrophilic. Good chemical resistance, very low extractable substances content. For the filtration of organic solvents, for HPLC sample preparation and for sterile filtration and clarification of biological media. High protein binding (approx. 120 µg/cm²).

Technical specifications:

Art. No.	AH50.1	A068.2	A069.2	A070.2
Ø Membrane	30 mm			
Ø Housing	34 mm			
Housing material	PP			
Sample volume	10-120 ml			
Dead volume	<60 µl			
Filtration area	4.8 cm²			
Max. application temperature	80 °C			
Max. operating pressure	8 bar			
Inlet connection	Luer lock connector			
Outlet connection	Luer connector			

Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.
1,2	Non-sterile	30	AH50.1	50 unit(s)
0,22	Non-sterile	30	A068.2	50 unit(s)
0,45	Non-sterile	30	A069.2	50 unit(s)
5,0	Non-sterile	30	A070.2	50 unit(s)

Polytetrafluoroethylene (PTFE)

Hydrophobic. Excellent chemical resistance. For filtration of aggressive substances, solvent, gases and aerosols.

Technical specifications:

Art. No.	A075.2	A077.2	A076.2	A078.2
Ø Membrane	17 mm	30 mm	17 mm	30 mm
Ø Housing	22 mm	34 mm	22 mm	34 mm
Housing material	PP			
Sample volume	1-10 ml	10-120 ml	1-10 ml	10-120 ml
Dead volume	<15 µl	<60 µl	<15 µl	<60 µl
Filtration area	1.4 cm²	4.8 cm²	1.4 cm²	4.8 cm²
Max. application temperature	80 °C			
Max. operating pressure	8 bar			
Inlet connection	Luer lock connector			
Outlet connection	Luer connector			

Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.
0,22	Non-sterile	17	A075.2	50 unit(s)
0,22	Non-sterile	30	A077.2	50 unit(s)
0,45	Non-sterile	17	A076.2	50 unit(s)
0,45	Non-sterile	30	A078.2	50 unit(s)



Syringe filters Millex® IC

MERCK MILLIPORE.

IC-certified.

Filter units specifically for sample preparation in ion chromatography.

- Low-binding hydrophilic PTFE membrane
- Low extractable substances content
- For clear filtration of aqueous and slightly organic solutions

Technical specifications:

Art. No.	XE82.1	XE83.1	XE84.1	XE85.1
Ø Membrane	13 mm	25 mm	13 mm	25 mm
Housing material	HDPE			
Sample volume	~10 ml	~100 ml	~10 ml	~100 ml
Dead volume	<25 µl	<100 µl	<25 µl	<100 µl
Max. application temperature	45 °C			
Max. operating pressure	7 bar			
Inlet connection	Luer lock connector			
Outlet connection	Luer connector			

Not a medical device / Not an IVD product

Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.
Millex®-LG	0,20	Non-sterile	13	XE82.1	100 unit(s)
Millex®-LG	0,20	Non-sterile	25	XE83.1	50 unit(s)
Millex®-LH	0,45	Non-sterile	13	XE84.1	100 unit(s)
Millex®-LH	0,45	Non-sterile	25	XE85.1	50 unit(s)



Syringe filters

Syringe filters Millex®

MERCK MILLIPORE.



Not a medical device / Not an IVD product

Nylon

Hydrophilic membrane for clear filtration of aqueous and organic solutions.

Technical specifications:

Art. No.	XE16.1	XE02.1	XE18.1	XE03.1	XE17.1	XE19.1
Ø Membrane	13 mm	33 mm	13 mm	33 mm	13 mm	
Housing material	HDPE	PP	HDPE	PP	HDPE	
Sample volume	~10 ml	~100 ml	~10 ml	~100 ml	~10 ml	
Dead volume	<25 µl	<100 µl	<25 µl	<100 µl	<25 µl	
Filtration area	0.65 cm ²	4.5 cm ²	0.65 cm ²	4.5 cm ²	0.65 cm ²	
Max. application temperature	45 °C					
Max. operating pressure	7 bar	8.6 bar	7 bar	8.6 bar	7 bar	
Inlet connection	Luer lock connector					
Outlet connection	Luer connector				Luer cone connector with extended outlet	

Pic.	Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.	
	Millex®-GN	0,2	Non-sterile	13	XE16.1	100 unit(s)	
	Millex®-GN	0,2	Non-sterile	33	XE02.1	50 unit(s)	
	Millex®-HN	0,45	Non-sterile	13	XE18.1	100 unit(s)	
	Millex®-HN	0,45	Non-sterile	33	XE03.1	50 unit(s)	
(2)	Millex® GN with extended outlet	0,2	Non-sterile	13	XE17.1	100 unit(s)	
(2)	Millex® HN with extended outlet	0,45	Non-sterile	13	XE19.1	100 unit(s)	

Polyethersulfone (PES)

Hydrophilic membrane for filtration of aqueous solutions.

Technical specifications:

Art. No.	XE10.1	XC98.1	XE11.1	XC99.1
Ø Membrane	13 mm	33 mm	13 mm	33 mm
Housing material	HDPE	PP	HDPE	PP
Sample volume	~10 ml	~100 ml	~10 ml	~100 ml
Dead volume	<25 µl	<100 µl	<25 µl	<100 µl
Filtration area	0.65 cm ²	4.5 cm ²	0.65 cm ²	4.5 cm ²
Max. application temperature	45 °C			
Max. operating pressure	7 bar	8.6 bar	7 bar	8.6 bar
Inlet connection	Luer lock connector			
Outlet connection	Luer connector			

Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.	
Millex®-GP	0,22	Non-sterile	13	XE10.1	100 unit(s)	
Millex®-GP	0,22	Non-sterile	33	XC98.1	50 unit(s)	
Millex®-HP	0,45	Non-sterile	13	XE11.1	100 unit(s)	
Millex®-HP	0,45	Non-sterile	33	XC99.1	50 unit(s)	

Syringe filters

Hydrophilic polytetrafluoroethylene (PTFE)

Hydrophilic LCR membrane with low protein binding for clear filtration of aqueous and organic solutions.

Technical specifications:

Art. No.	XE20.1	XE06.1	XE07.1	XE21.1	XE26.1
Ø Membrane	13 mm	4 mm		13 mm	25 mm
Housing material	HDPE				
Sample volume	~10 ml	~1 ml		~10 ml	~100 ml
Dead volume	<25 µl	<10 µl		<25 µl	<100 µl
Filtration area	0.65 cm ²	0.1 cm ²		0.65 cm ²	3.9 cm ²
Max. application temperature	45 °C				
Max. operating pressure	7 bar	14 bar		7 bar	
Inlet connection	Luer lock connector				
Outlet connection	Luer connector	Luer cone connector, graduated		Luer cone connector with extended outlet	Luer connector

Pic.	Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.	
	Millex®-LCR	0,45	Non-sterile	13	XE20.1	100 unit(s)	
(1)	Millex®-LG	0,2	Non-sterile	4	XE06.1	100 unit(s)	
(1)	Millex®-LH	0,45	Non-sterile	4	XE07.1	100 unit(s)	
(2)	Millex® LCR with extended outlet	0,45	Non-sterile	13	XE21.1	100 unit(s)	
(3)	Millex®-LCR	0,45	Non-sterile	25	XE26.1	50 unit(s)	

Hydrophobic polytetrafluoroethylene (PTFE)

Hydrophobic Fluoropore membrane for clear filtration of organic solvents.

Technical specifications:

Art. No.	XE22.1	XE24.1	XE08.1	XE09.1	XE23.1	XE25.1	XE27.1	XE28.1
Ø Membrane	13 mm		4 mm		13 mm		25 mm	
Housing material	HDPE							
Sample volume	~10 ml		~1 ml		~10 ml		~100 ml	
Dead volume	<25 µl		<10 µl		<25 µl		<100 µl	
Filtration area	0.65 cm ²		0.1 cm ²		0.65 cm ²		3.9 cm ²	
Max. application temperature	45 °C							
Max. operating pressure	7 bar		14 bar		7 bar			
Inlet connection	Luer lock connector							
Outlet connection	Luer connector		Luer cone connector, graduated		Luer cone connector with extended outlet		Luer connector	

Pic.	Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.	
	Millex®-FG	0,2	Non-sterile	13	XE22.1	100 unit(s)	
	Millex®-FH	0,45	Non-sterile	13	XE24.1	100 unit(s)	
(1)	Millex®-FG	0,2	Non-sterile	4	XE08.1	100 unit(s)	
(1)	Millex®-FH	0,45	Non-sterile	4	XE09.1	100 unit(s)	
(2)	Millex® FG with extended outlet	0,2	Non-sterile	13	XE23.1	100 unit(s)	
(2)	Millex® FH with extended outlet	0,45	Non-sterile	13	XE25.1	100 unit(s)	
(3)	Millex®-FG	0,2	Non-sterile	25	XE27.1	50 unit(s)	
(3)	Millex®-FH	0,45	Non-sterile	25	XE28.1	50 unit(s)	



Syringe filters

Polyvinylidene fluoride (PVDF)

Hydrophilic Durapore® membrane for clear filtration of aqueous and slightly organic solutions.

Very low protein binding characteristics.

Technical specifications:

Art. No.	XE12.1	XE00.1	XE14.1	XE01.1	XE04.1	XE05.1	XE13.1	XE15.1
Ø Membrane	13 mm	33 mm	13 mm	33 mm	4 mm		13 mm	
Housing material	HDPE	PP	HDPE	PP	HDPE			
Sample volume	~10 ml	~100 ml	~10 ml	~100 ml	~1 ml		~10 ml	
Dead volume	<25 µl	<100 µl	<25 µl	<100 µl	<10 µl		<25 µl	
Filtration area	0.65 cm ²	4.5 cm ²	0.65 cm ²	4.5 cm ²	0.1 cm ²		0.65 cm ²	
Max. application temperature	45 °C							
Max. operating pressure	7 bar	8.6 bar	7 bar	8.6 bar	14 bar		7 bar	
Inlet connection	Luer lock connector							
Outlet connection	Luer connector				Luer cone connector, graduated		Luer cone connector with extended outlet	

Pic.	Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.	
	Millex®-GV	0,22	Non-sterile	13	XE12.1	100 unit(s)	
	Millex®-GV	0,22	Non-sterile	33	XE00.1	50 unit(s)	
	Millex®-HV	0,45	Non-sterile	13	XE14.1	100 unit(s)	
	Millex®-HV	0,45	Non-sterile	33	XE01.1	50 unit(s)	
(1)	Millex®-GV	0,22	Non-sterile	4	XE04.1	100 unit(s)	
(1)	Millex®-HV	0,45	Non-sterile	4	XE05.1	100 unit(s)	
(2)	Millex® GV with extended outlet	0,22	Non-sterile	13	XE13.1	100 unit(s)	
(2)	Millex® HV with extended outlet	0,45	Non-sterile	13	XE15.1	100 unit(s)	

Syringe filters Millex® 33 mm

MERCK MILLIPORE. Sterile.

Individually packed. Housing made of modified acrylic.



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Technical specifications:

Art. No.	XC58.1	XC57.1	XC55.1	XC61.1	XC59.1	XC56.1	XE79.1	XC60.1
Ø Membrane	33 mm							
Housing material	PMMA							
Sample volume	~100 ml			~200 ml	~100 ml		~200 ml	~100 ml
Dead volume	<100 µl							
Filtration area	4.5 cm ²							
Max. application temperature	45 °C							
Max. operating pressure	10 bar							
Inlet connection	Luer lock connector							
Outlet connection	Luer connector							

Medical device class IIa MDD

ID: 0459

Mixed cellulose ester (MCE)

Hydrophilic membrane.

Intended use: Outside of the U.S. and Japan, Millex®-GS/HA/AA filter units may also be used for direct patient care and pharmacy admixture applications. In the hospital pharmacy, Millex® filter units can be used to sterile filter or clarify small volumes of protein pharmaceuticals, diagnostic imaging agents, chemotherapeutics, aqueous solutions, or water during admixture preparation. Direct patient care applications include sterilization and/or particulate removal from epidural and other liquid anesthetics as well as from irrigation solutions used in ophthalmic, otic, and other surgical procedures.

- Application: 0.2 µm filter units for the sterilisation of aqueous solutions, large pore sizes for prefiltration and clear filtration
- Colour code: blue
- Work volume: approx. 100 ml

Syringe filters

Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Colour coding	Art. No.	Pack Qty.	
Millex®-AA	0,8	Sterile	33	blue	XC57.1	50 unit(s)	
Millex®-GS	0,22	Sterile	33	blue	XC55.1	50 unit(s)	
Millex®-HA	0,45	Sterile	33	blue	XC56.1	50 unit(s)	

Polyethersulfone (PES)

Hydrophilic Millipore Express® membrane.

Intended use: Outside the U.S. and Japan, Millex®-GP/HP filter units are intended for use as a syringe filter to sterilize and/or clarify low volume solutions in direct patient care and pharmacy admixture applications.

- Application: Sterilisation of tissue culture media and additives, buffers, protein solutions, virus suspensions, DNA and other aqueous solutions
- Colour code: green
- Work volume: approx. 200 ml

Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Colour coding	Art. No.	Pack Qty.	
Millex®-GP	0,22	Sterile	33	green	XC61.1	50 unit(s)	
Millex®-HP	0,45	Sterile	33	green	XE79.1	50 unit(s)	

Polyvinylidene fluoride (PVDF)

Hydrophilic Durapore® membrane.

Intended use: Outside the U.S. and Japan, Millex®-VV/GV/HV filter units are intended for use as a syringe filter to sterilize and/or clarify low volume solutions in direct patient care and pharmacy admixture applications.

- Application: Sterilisation of aqueous and protein solutions, syringe filter with lowest protein binding ratio
- Colour code: yellow
- Work volume: approx. 100 ml

Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Colour coding	Art. No.	Pack Qty.	
Millex®-VV	0,1	Sterile	33	yellow	XC58.1	50 unit(s)	
Millex®-GV	0,22	Sterile	33	yellow	XC59.1	50 unit(s)	
Millex®-HV	0,45	Sterile	33	yellow	XC60.1	50 unit(s)	

Syringe filters CHROMAFIL®

Macherey-Nagel. Autoclavable: Yes.

For clarification or sterile filtration of liquids or gases, as well as for sample preparation for use in HPLC, GC, ICP, AAS, TOC, DOC, IR, NMR, photometry, spectroscopy, etc.
Compacted PP housing with very low extractable substances content and good chemical resistance.

Autoclavable at 121 °C and 1.1 bar for 30 min.



A 121 °C

Not a medical device / Not an IVD product

CA non-sterile

Non-sterile. Hydrophilic cellulose acetate membrane for filtration of aqueous solutions. Ideal for use with biological macromolecules, water-soluble oligomers and polymers.

Extremely low protein binding capacity (21 µg per 25 mm filter).

Technical specifications:

Art. No.	XH38.1	XH38.2	XH39.1	XH39.2
Ø Membrane	25 mm			
Ø Housing	30 mm			
Housing material	PP			
Sample volume	5–100 ml			
Dead volume	~80 µl			
Filtration area	4.9 cm²			
Max. application temperature	55 °C			
Max. operating pressure	6 bar			
Inlet connection	Luer lock connector			
Outlet connection	Luer connector			

Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.	
CA-20/25	0,20	Non-sterile	25	XH38.1	100 unit(s)	
CA-20/25	0,20	Non-sterile	25	XH38.2	400 unit(s)	
CA-45/25	0,45	Non-sterile	25	XH39.1	100 unit(s)	
CA-45/25	0,45	Non-sterile	25	XH39.2	400 unit(s)	



Syringe filters

CA sterile

Hydrophilic cellulose acetate membrane for filtration of aqueous solutions. Ideal for use with biological macromolecules, water-soluble oligomers and polymers.

Extremely low protein binding capacity (21 µg per 25 mm filter).

Technical specifications:

Art. No.	XH42.1	XH43.1
Ø Membrane	25 mm	
Ø Housing	30 mm	
Housing material	PP	
Sample volume	5–100 ml	
Dead volume	~80 µl	
Filtration area	4.9 cm ²	
Max. application temperature	55 °C	
Max. operating pressure	6 bar	
Inlet connection	Luer lock connector	
Outlet connection	Luer	

Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.
CA-20/25 (S)	0,20	Sterile	25	XH42.1	50 unit(s)
CA-45/25 (S)	0,45	Sterile	25	XH43.1	50 unit(s)

MV

Non-sterile. Hydrophilic cellulose ester composite membrane with very low adsorption for the filtration of aqueous and polar solutions.

Technical specifications:

Art. No.	XH49.1	XH49.2	XH50.1	XH50.2
Ø Membrane	25 mm			
Ø Housing	30 mm			
Housing material	PP			
Sample volume	5-100 ml			
Dead volume	~80 µl			
Filtration area	4.9 cm ²			
Max. application temperature	55 °C			
Max. operating pressure	6 bar			
Inlet connection	Luer lock connector			
Outlet connection	Luer connector			

Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.
MV A-20/25	0,20	Non-sterile	25	XH49.1	100 unit(s)
MV A-20/25	0,20	Non-sterile	25	XH49.2	400 unit(s)
MV A-45/25	0,45	Non-sterile	25	XH50.1	100 unit(s)
MV A-45/25	0,45	Non-sterile	25	XH50.2	400 unit(s)

PA

Non-sterile. PA (nylon) membrane for the filtration of medium polar organic-aqueous liquids.

Technical specifications:

Art. No.	XH53.1	XH55.1	XH57.1	XH57.2	XH54.1	XH56.1	XH58.1	XH58.2
Ø Membrane	3 mm	15 mm	25 mm		3 mm	15 mm	25 mm	
Ø Housing	6 mm	25 mm	30 mm		6 mm	25 mm	30 mm	
Housing material	PP							
Sample volume	≤1 ml	1–5 ml	5–100 ml		≤1 ml	1–5 ml	5–100 ml	
Dead volume	~5 µl	~35 µl	~80 µl		~5 µl	~35 µl	~80 µl	
Filtration area	0.07 cm ²	1.6 cm ²	4.9 cm ²		0.07 cm ²	1.6 cm ²	4.9 cm ²	
Max. application temperature	55 °C							
Max. operating pressure	6 bar							
Inlet connection	Luer lock connector							
Outlet connection	Luer	Mini-Spike	Luer		Mini-Spike	Luer		

Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.
AO-20/3	0,20	Non-sterile	3	XH53.1	100 unit(s)
AO-20/15 MS	0,20	Non-sterile	15	XH55.1	100 unit(s)
AO-20/25	0,20	Non-sterile	25	XH57.1	100 unit(s)
AO-20/25	0,20	Non-sterile	25	XH57.2	400 unit(s)
AO-45/3	0,45	Non-sterile	3	XH54.1	100 unit(s)
AO-45/15 MS	0,45	Non-sterile	15	XH56.1	100 unit(s)
AO-45/25	0,45	Non-sterile	25	XH58.1	100 unit(s)
AO-45/25	0,45	Non-sterile	25	XH58.2	400 unit(s)

Syringe filters

PET

Non-sterile. Hydrophilic polyester all-round membrane for polar and nonpolar solutions. Particularly suitable for the filtration of eluent mixtures made of water and organic solvents for HPLC and for sample preparation for TOC/DOC determination.

Not cytotoxic, does not inhibit the growth of microorganisms and higher cells.

Technical specifications:

Art. No.	P300.1	P298.1	P298.2	P301.1	P299.1	P299.2
Ø Membrane	15 mm	25 mm		15 mm	25 mm	
Ø Housing	25 mm	30 mm		25 mm	30 mm	
Housing material	PP					
Sample volume	1–5 ml	5–100 ml		1–5 ml	5–100 ml	
Dead volume	~35 µl	~80 µl		~35 µl	~80 µl	
Filtration area	1.6 cm ²	4.9 cm ²		1.6 cm ²	4.9 cm ²	
Max. application temperature	55 °C					
Max. operating pressure	6 bar					
Inlet connection	Luer lock connector					
Outlet connection	Mini-Spike	Luer		Mini-Spike	Luer	

Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.	
PET-20/15 MS	0,20	Non-sterile	15	P300.1	100 unit(s)	
PET-20/25	0,20	Non-sterile	25	P298.1	100 unit(s)	
PET-20/25	0,20	Non-sterile	25	P298.2	400 unit(s)	
PET-45/15 MS	0,45	Non-sterile	15	P301.1	100 unit(s)	
PET-45/25	0,45	Non-sterile	25	P299.1	100 unit(s)	
PET-45/25	0,45	Non-sterile	25	P299.2	400 unit(s)	

PTFE

Non-sterile. Hydrophobic PTFE membrane for nonpolar liquids and gases. Highly resistant to solvents, acids and bases. Non-sterile.

Note: The membrane can be wetted with water by rinsing with alcohol and subsequently with water.

Technical specifications:

Art. No.	XH61.1	XH63.1	XH65.1	XH65.2	XH62.1	XH64.1
Ø Membrane	3 mm	15 mm	25 mm		3 mm	15 mm
Ø Housing	6 mm	25 mm	30 mm		6 mm	25 mm
Housing material	PP					
Sample volume	≤1 ml	1–5 ml	5–100 ml		≤1 ml	1–5 ml
Dead volume	~5 µl	~35 µl	~80 µl		~5 µl	~35 µl
Filtration area	0.07 cm ²	1.6 cm ²	4.9 cm ²		0.07 cm ²	1.6 cm ²
Max. application temperature	55 °C					
Max. operating pressure	6 bar					
Inlet connection	Luer lock connector					
Outlet connection	Luer	Mini-Spike	Luer			Mini-Spike

Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.	
O-20/3	0,20	Non-sterile	3	XH61.1	100 unit(s)	
O-20/15 MS	0,20	Non-sterile	15	XH63.1	100 unit(s)	
O-20/25	0,20	Non-sterile	25	XH65.1	100 unit(s)	
O-20/25	0,20	Non-sterile	25	XH65.2	400 unit(s)	
O-45/3	0,45	Non-sterile	3	XH62.1	100 unit(s)	
O-45/15 MS	0,45	Non-sterile	15	XH64.1	100 unit(s)	



Syringe filters

PVDF

Non-sterile. Hydrophilic PVDF membrane for polar and nonpolar solutions, water-soluble oligomers, proteins and other polymers. Protein binding capacity: 82 µg per 25 mm filter.

Technical specifications:

Art. No.	XH69.1	XH70.1
Ø Membrane	15 mm	
Ø Housing	25 mm	
Housing material	PP	
Sample volume	1–5 ml	
Dead volume	~35 µl	
Filtration area	1.6 cm ²	
Max. application temperature	55 °C	
Max. operating pressure	6 bar	
Inlet connection	Luer lock connector	
Outlet connection	Mini-Spike	

Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.
PVDF-20/15 MS	0,20	Non-sterile	15	XH69.1	100 unit(s)
PVDF-45/15 MS	0,45	Non-sterile	15	XH70.1	100 unit(s)

RC

Non-sterile. Regenerated cellulose hydrophilic membrane with very low adsorption. For filtration of aqueous and organic-aqueous solutions. Protein binding capacity: 84 µg per 25 mm filter.

Technical specifications:

Art. No.	XH45.1	XH45.2	EE80.1	EE80.2	XH46.1	XH46.2	EE81.1	EE81.2
Ø Membrane	15 mm		25 mm		15 mm		25 mm	
Ø Housing	25 mm		30 mm		25 mm		30 mm	
Housing material	PP							
Sample volume	1–5 ml		5–100 ml		1–5 ml		5–100 ml	
Dead volume	~35 µl		~80 µl		~35 µl		~80 µl	
Filtration area	1.6 cm ²		4.9 cm ²		1.6 cm ²		4.9 cm ²	
Max. application temperature	55 °C							
Max. operating pressure	6 bar							
Inlet connection	Luer lock connector							
Outlet connection	Mini-Spike		Luer		Mini-Spike		Luer	

Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.
RC-20/15 MS	0,2	Non-sterile	15	XH45.1	100 unit(s)
RC-20/15 MS	0,2	Non-sterile	15	XH45.2	800 unit(s)
RC-20/25	0,2	Non-sterile	25	EE80.1	100 unit(s)
RC-20/25	0,2	Non-sterile	25	EE80.2	400 unit(s)
RC-45/15 MS	0,45	Non-sterile	15	XH46.1	100 unit(s)
RC-45/15 MS	0,45	Non-sterile	15	XH46.2	800 unit(s)
RC-45/25	0,45	Non-sterile	25	EE81.1	100 unit(s)
RC-45/25	0,45	Non-sterile	25	EE81.2	400 unit(s)

GF/PET

Non-sterile. Hydrophilic PET all-round membrane with glass fibre prefilter for polar and nonpolar solutions. Especially suited to filtering eluent mixtures of water and organic solvents. Recommended for solutions with high proportions of suspended matter or highly viscous solutions; the glass fibre membrane removes large particles and prevents the membrane from being blocked. This improves filtration efficiency, increases filtrate yield and aids clarification of solutions with a high particulate matter load.

Technical specifications:

Art. No.	EE78.1	EE79.1
Ø Membrane	25 mm	
Ø Housing	30 mm	
Housing material	PP	
Sample volume	5–100 ml	
Dead volume	~80 µl	
Filtration area	4.9 cm ²	
Max. application temperature	55 °C	
Max. operating pressure	12 bar	
Inlet connection	Luer lock connector	
Outlet connection	Luer connector	

Type	Pore size (µm)	Sterility	Ø Membrane (mm)	Art. No.	Pack Qty.
GF/PET-20/25	1,0/0,20	Non-sterile	25	EE78.1	100 unit(s)
GF/PET-45/25	1,0/0,45	Non-sterile	25	EE79.1	100 unit(s)

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