



sartorius

## Minisart<sup>®</sup> Syringe Filters The Easy Choice – Clean and Safe



turning science **into solutions**

# Minisart® Syringe Filters

## Removal of Particles and Microorganisms from Liquids and Gases

Sartorius offers Minisart® syringe filters for a wide range of applications. The filters are clean and safe as they are almost free of leachables and extractables. Additionally, they reliably remove particles and microorganisms with no leakage. Minisart® with PP housing is optimized for filtration prior to analytics and withstands even harsh solvents and chemicals. Minisart® with housing made of medical acrylic (MBS) are the perfect choice for sterile filtration and clarification of additives, buffers, reagents, drugs and gases.





# Minisart® -Help-to-Find





Please refer to Minisart® RC, NY or SRP for the highest chemical compatibility, page 8.

Please refer to Minisart® NML or Minisart® High Flow on page 12.

Several additional Minisart® for venting and special purposes could be found on page 16.

Sample Composition	Aqueous		Aqueous   Solvents		
	All Aqueous Solutions Buffers, Protein Analysis	All Aqueous Solutions Tissue Culture Media	Aqueous   Solvent Mixtures   Solvents	Solvent Mixtures   Solvents	Solvents   Gases   Acids   Bases
	SFCA Surfactant-Free Cellulose Acetate	PES Polyethersulfone	RC Regenerated Cellulose	NY Polyamide, Nylon	PTFE Polytetrafluoroethylene
	Hydrophilic			Hydrophobic	

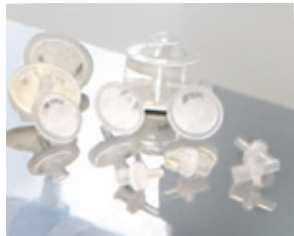
Pore Sizes	Sterilization		Sample Preparation   Clarification   Particle Removal					Prefiltration
	Small Bacteria Mycoplasma Colloids > 0.1	UHPLC, etc. (Columns < 3 µm Particles) Bacteria	HPLC, etc. (Columns > 3 µm Particles) Particles	Particles Yeast Cells	Particles Yeast Cells	Particles Yeast Cells Platelets	Large Particles Rubber-grit Cells	Glass Prefilter for Highly Particle- laden Samples
	0.1 µm	0.2 µm	0.45 µm	0.65 µm	0.8 µm	1.2 µm	5 µm	GF (Glass Fibre)

Sample Volume				
	1 – 200 ml	1 – 100 ml	0.5 – 15 ml	0.05 – 1 ml
	28 mm for up to 200 ml	25 mm for up to 100 ml	15 mm for up to 15 ml	4 mm for up to 1 ml

# Minisart® Syringe Filters

A full range of filters dedicated for various filtration applications.

## Sample Preparation HPLC | UHPLC | Analytics



Elimination of particles from your samples prior to HPLC or other chromatographic analysis is essential in order to maintain the integrity of your chromatography column and to maximize its operating life time.

Minisart® syringe filters optimized for sample preparation consist of a PP housing and membrane components featuring maximum chemical compatibility and minimum extractables to ensure excellent results. Due to the typical range of volumes from less than 1 ml to 100 ml these filters are available in three different diameters with an effective filtration area of 0.07 cm<sup>2</sup>, 1.7 cm<sup>2</sup> and 4.8 cm<sup>2</sup>. See page 6.

## Filtration of Aqueous Liquids Clarification | Sterile Filtration



For clarification and sterilization of liquids, filtration is the optimal method. It removes all microorganisms and particles reliably, with least effects on the ingredients, due to adsorption or decomposition.

For optimal results Minisart® filters made of MBS housing provide a choice of membranes with pore sizes ranging from 0.1 µm to 5 µm for high flow rates and lowest adsorption characteristics. The effective filtration area of 6.2 cm<sup>2</sup> for fastest filtration is the biggest amongst premium syringe filters and the MBS housing is color-coded for easy pore size identification. See page 10.

## Medical Use and Sterile Venting Special Applications



Minisart® syringe filters are ideal for clarification of liquids laden with particles, e.g. for preparation of pharmaceuticals or infusion solutions. For sterilization and removal of particles from air and other gases, syringe filters are optimal for sterile venting of containers, bioreactors, fermenters and tubing systems in medical devices. Many Minisart® syringe filters have the CE mark of conformity (European directive) and are available with a wide choice of membranes, connectors and housing materials. See page 14.

## Sartolab® Filters Vacuum Filtration and Pressure Filtration Devices

See page 24.



# Sample Preparation for Analytics

## Reliable removal of Particles and Microorganisms from Liquids and Gases

Particle removal via filtration prior to analytics substantially increases the lifetime of your columns. Minisart® RC is optimized for aqueous liquids as well as solvents and is stable against DMSO, other amides, ketones, esters and ethers. Minisart® NY is exceptionally pure compared to other common polyamide (=nylon) filters and competitor products. For this products raw materials are used which do not interfere with standard analytical methods. Our coating-free hydrophobic PTFE membrane used in Minisart® SRP is suitable for venting applications as well as the leachable free clarification of very harsh chemicals.



### Minisart® Features

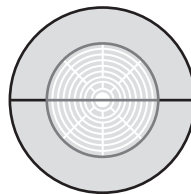
- Low adsorption of analytes
- Maximum chemical compatibility
- Minimum extractables or leachables
- Bidirectional use possible
- 100% optical integrity test



4 mm effective filtration diameter  
12 mm housing diameter



4 mm packs are colour-coded



15 mm effective filtration diameter  
24.5 mm housing diameter



Minisart® SRP 15 mm



Minisart® NY 15 mm



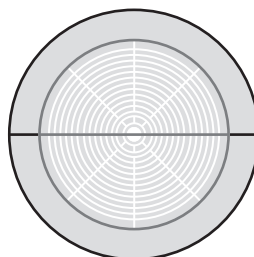
Minisart® RC 15 mm



Male Spike Outlet



Male Luer Slip Outlet



25 mm effective filtration diameter  
33 mm housing diameter



Minisart® SRP 25 mm



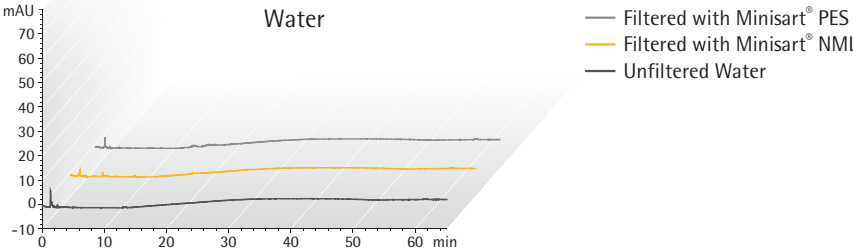
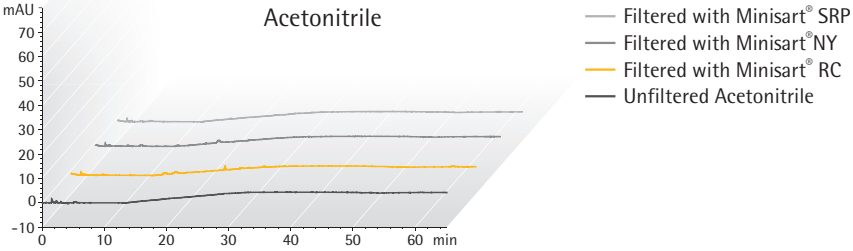
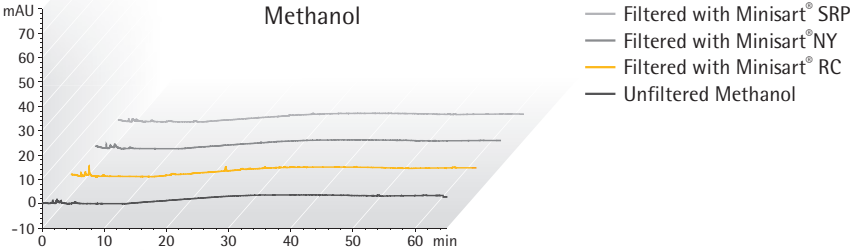
Minisart® NY 25 mm



Minisart® RC 25 mm



Clean Materials for Lowest Background Levels



**HPLC Procedure**

Column  
 - C18: 250 × 4.6 mm,  
 - Flow Rate: 1 ml/min,  
 - Wavelength: 220 nm

HPLC  
 - Injection Volume: 20 µl,  
 - Analysis Time: 65 min,  
 - Temperature: 40°C,  
 - Mobile Phases:  
 A) Acetonitrile  
 B) Water, Gradient:  
 Hold 60% A for 10 min,  
 60% to 95% A in 20 min,  
 95% to 100% A in 35 min

# Sample Preparation Chromatography

## Ordering Information

Ø mm | EFD<sup>1)</sup> | Membrane | Housing | Pore Size | Connector Outlet | Color | Printing | Sterile\* | Qty | Pk | Order No.

### Minisart® RC (Regenerated Cellulose)

25 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17764-----ACK
25 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	17764-----K
25 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	200	17764-----S
25 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	17764-----Q
25 mm	RC	PP	0.45 µm	Male Luer Slip	White, Printed	No	50	17765-----K
25 mm	RC	PP	0.45 µm	Male Luer Slip	White, Printed	No	200	17765-----S
25 mm	RC	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	17765-----Q
15 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17761-----ACK
15 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	17761-----K
15 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	17761-----Q
15 mm	RC	PP	0.45 µm	Male Luer Slip	White, Printed	No	50	17762-----K
15 mm	RC	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	17762-----Q
4 mm	RC	PP	0.2 µm	Male Luer Slip	Blue Tray	No	50	17821-----K
4 mm	RC	PP	0.2 µm	Male Luer Slip	Blue Tray	No	500	17821-----Q
4 mm	RC	PP	0.45 µm	Male Luer Slip	Yellow Tray	No	50	17822-----K
4 mm	RC	PP	0.45 µm	Male Luer Slip	Yellow Tray	No	500	17822-----Q

### Minisart® SRP (Hydrophobic PTFE)

25 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17575-----ACK
25 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	17575-----K
25 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	No	200	17575-----S
25 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	17575-----Q
25 mm	PTFE	PP	0.45 µm	Male Luer Slip	White, Printed	No	50	17576-----K
25 mm	PTFE	PP	0.45 µm	Male Luer Slip	White, Printed	No	200	17576-----S
25 mm	PTFE	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	17576-----Q
15 mm	PTFE	PP	0.2 µm	Male Spike	White, Printed	No	50	17558-----K
15 mm	PTFE	PP	0.2 µm	Male Spike	White, Printed	No	500	17558-----Q
15 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17573-----ACK
15 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	17573-----K
15 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	17573-----Q
15 mm	PTFE	PP	0.45 µm	Male Spike	White, Printed	No	50	17559-----K
15 mm	PTFE	PP	0.45 µm	Male Spike	White, Printed	No	500	17559-----Q
15 mm	PTFE	PP	0.45 µm	Male Luer Slip	White, Printed	No	50	17574-----K
15 mm	PTFE	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	17574-----Q
4 mm	PTFE	PP	0.2 µm	Male Luer Slip	Blue Tray	No	500	17844-----Q
4 mm	PTFE	PP	0.45 µm	Male Luer Slip	Yellow Tray	No	50	17820-----K
4 mm	PTFE	PP	0.45 µm	Male Luer Slip	Yellow Tray	No	500	17820-----Q



Ø mm | EFD<sup>1)</sup> | Membrane | Housing | Pore Size | Connector Outlet | Color | Printing | Sterile\* | Qty | Pk | Order No.

**Minisart® NY (Nylon) & NY25 Plus (Glass Fiber 0.7 µm<sup>2)</sup> + Nylon)**

25 mm	Nylon	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17845-----ACK
25 mm	Nylon	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	17845-----Q
25 mm	Nylon	PP	0.45 µm	Male Luer Slip	White, Printed	Yes	50	17846-----ACK
25 mm	Nylon	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	17846-----Q
15 mm	Nylon	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	1776B-----K
15 mm	Nylon	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	1776B-----Q
15 mm	Nylon	PP	0.45 µm	Male Luer Slip	White, Printed	No	50	1776C-----K
15 mm	Nylon	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	1776C-----Q
25 mm	GF+Nylon	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	1784B-----K
25 mm	GF+Nylon	PP	0.2 µm	Male Luer Slip	White, printed	No	500	1784B-----Q
25 mm	GF+Nylon	PP	0.45 µm	Male Luer Slip	White, printed	No	50	1784C-----K
25 mm	GF+Nylon	PP	0.45 µm	Male Luer Slip	White, printed	No	500	1784C-----Q

\* Sterile Minisarts are individually packaged. If not stated otherwise, Minisarts have been sterilized by ethylene oxide. Minisarts not presterilized: RC, PTFE and Nylon can be sterilized by autoclaving at 121 °C for 30 min/or by using ethylene oxide (EO).

<sup>1)</sup> EFD – Effective Filtration Diameter

<sup>2)</sup> 0.7 µm = GF particle retention ≠ pore size!

For technical product specifications please see page 20.



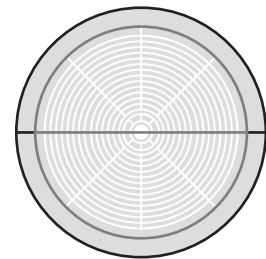
# Filtration of Aqueous Liquids – Clarification | Sterilization

## Filtration is the Optimal Method for Clarification and Sterilization of Liquids.

Sterilization by filtration is the fastest solution for bacterial cell removal from liquids with minimal effect on the ingredients. Minisart® NML with surfactant-free cellulose acetate (SFCA) is the best choice for all aqueous solutions with a pH of 4–8. It combines fast flow rates with an exceptionally pure and leachable free membrane and is available in many different pore sizes also for the removal of larger particles. Minisart® High Flow with polyethersulfone (PES) is optimal for highest flow rates and a pH of 1–13. Due to the asymmetric membrane structure, the PES surface almost behaves like a pre-filter. Both Minisart® types NML and High Flow can be sterilized by ethylene oxide (EO) or gamma irradiation. Several Minisart® NML article numbers in addition have the CE mark of conformity.

### Minisart® Features

- Biggest effective filtration diameter (EFD) of 6.2 cm<sup>2</sup>
- Lowest adsorption
- Superior flow rate
- High total throughput
- Low hold-up volume
- Minimum extractables
- PVC-free
- Gamma irradiated or EO sterilized



28 mm effective filtration diameter  
33 mm housing diameter

### Minisart® High Flow with PES

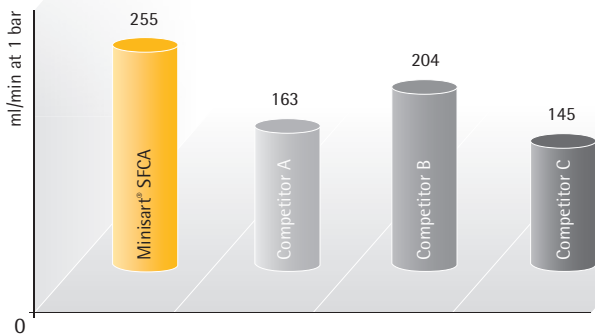


### Minisart® NML with SFCA



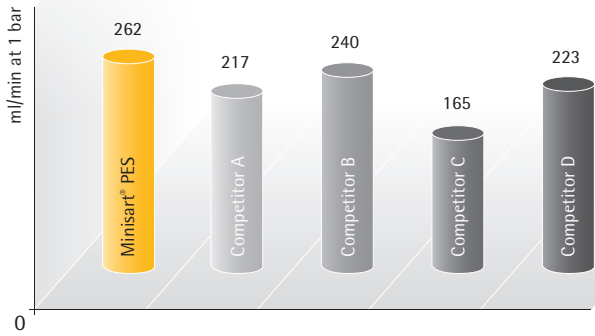


Premium Membranes for Fastest Flow Rates



**Procedure**

Water flow at 1 bar | 15.4 psi (ml/min)  
 0.45 µm SFCA membrane compared with CA (Cellulose Acetate) or similar hydrophilic membranes of same pore size



0.45 µm PES membrane compared with other PES membranes of same pore size

# Preparation of Aqueous Liquids

## Ordering Information

Ø mm	EFD <sup>1)</sup>	Membrane	Housing	Pore Size	Connector	Outlet	Color	Printing	Sterile*	Qty	Pk	Order No.	Marked?
<b>Minisart® High Flow (PES – Polyethersulfone)</b>													
28 mm	PES	MBS	0.1 µm	Male Luer Lock	Dark Red	Yes	50	16553	-----K				
28 mm	PES	MBS	0.22 µm	Male Luer Lock	Royal Blue	Yes	50	16532	-----K				
28 mm	PES	MBS	0.22 µm	Male Luer Lock	Royal Blue	Yes#	50	16532	-----GUK				
28 mm	PES	MBS	0.22 µm	Male Luer Lock	Royal Blue	No	500	16532	-----Q				
28 mm	PES	MBS	0.22 µm	Male Luer Slip	Royal Blue	Yes	50	16541	-----K				
28 mm	PES	MBS	0.22 µm	Male Luer Slip	Royal Blue	No	500	16541	-----Q				
28 mm	PES	MBS	0.45 µm	Male Luer Lock	Amber	Yes	50	16537	-----K				
28 mm	PES	MBS	0.45 µm	Male Luer Lock	Amber	No	500	16537	-----Q				
28 mm	PES	MBS	0.45 µm	Male Luer Slip	Amber	Yes	50	16533	-----K				
28 mm	PES	MBS	0.45 µm	Male Luer Slip	Amber	Yes#	50	16533	-----GUK				
28 mm	PES	MBS	0.45 µm	Male Luer Slip	Amber	No	500	16533	-----Q				
<b>Minisart® NML (SFCA – Surfactant-free Cellulose Acetate)</b>													
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue	Yes	50	16534	-----K	CE-marked			
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue	Yes#	50	16534	-----GUK	CE-marked			
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue	No	500	16534	-----Q	CE-marked			
28 mm	SFCA	MBS	0.2 µm	Male Luer Slip	Blue	Yes	50	17597	-----K	CE-marked			
28 mm	SFCA	MBS	0.2 µm	Male Luer Slip	Blue	No	500	17597	-----Q	CE-marked			
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	Yes	50	16555	-----K	CE-marked			
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	Yes#	50	16555	-----GUK	CE-marked			
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	No	500	16555	-----Q	CE-marked			
28 mm	SFCA	MBS	0.45 µm	Male Luer Slip	Yellow	Yes	50	17598	-----K	CE-marked			
28 mm	SFCA	MBS	0.45 µm	Male Luer Slip	Yellow	No	500	17598	-----Q	CE-marked			
28 mm	SFCA	MBS	0.65 µm	Male Luer Slip	Pink	Yes	50	16569	-----K				
28 mm	SFCA	MBS	0.8 µm	Male Luer Lock	Green	Yes	50	16592	-----K				
28 mm	SFCA	MBS	0.8 µm	Male Luer Lock	Green	Yes#	50	16592	-----GUK				
28 mm	SFCA	MBS	0.8 µm	Male Luer Lock	Green	No	500	16592	-----Q				
28 mm	SFCA	MBS	1.2 µm	Male Luer Lock	Red	Yes	50	17593	-----K				
28 mm	SFCA	MBS	1.2 µm	Male Luer Lock	Red	No	500	17593	-----Q				
28 mm	SFCA	MBS	5 µm	Male Luer Lock	Brown	Yes	50	17594	-----K	CE-marked			
28 mm	SFCA	MBS	5 µm	Male Luer Lock	Brown	No	500	17594	-----Q				

Ø mm	EFD <sup>1)</sup>	Membrane	Housing	Pore Size	Connector Outlet	Color   Printing	Sterile*	Qty   Pk	Order No.	Marked?
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**Minisart® NML Plus (Glass Fiber 0.7 µm<sup>2)</sup> + SFCA)**

28 mm	GF+SFCA	MBS	0.2 µm	Male Luer Lock	Blue	Yes	50	17823-----K
28 mm	GF+SFCA	MBS	0.2 µm	Male Luer Lock	Blue	No	500	17823-----Q
28 mm	GF+SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	Yes	50	17829-----K
28 mm	GF+SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	No	500	17829-----Q
28 mm	GF+SFCA	MBS	1.2 µm	Male Luer Lock	Red	No	500	17825-----Q
28 mm	GF	MBS	0.7 µm <sup>2)</sup>	Male Luer Lock	White	No	50	17824-----K
28 mm	GF	MBS	0.7 µm <sup>2)</sup>	Male Luer Lock	White	No	500	17824-----Q

\* Sterilized Minisarts are individually packaged. If not stated otherwise, Minisarts are sterilized by ethylene oxide.

#-Mark indicates sterilization by gamma irradiation.

Minisarts not presterilized: PES, SFCA, GF+SFCA and GF can be sterilized by ethylene oxide or gamma irradiation.

<sup>1)</sup> EFD – Effective Filtration Diameter

<sup>2)</sup> 0.7 µm = GF particle retention ≠ pore size!

For technical product specifications please see page 22.



# Special Applications – Medical Use & Venting

## Make Your Choice from a Broad Range of Pore Sizes, Materials and Formats

Bacterial cell removal or particulate removal from liquids including medical drugs can easily be performed with Minisart® syringe filters. Minisart® has minimal effect on the ingredients of the filtered solution. Minisart® NML and Ophthalsart with surfactant-free cellulose acetate (SFCA) and Minisart® HY and SRP with hydrophobic PTFE are frequently used for sterile filtration of aqueous and oily eye-solutions and other drugs. Minisart® NML with 5 µm pore sizes removes particulates or coagulates in dissolved medicals prior to injection offering highest total throughput and late clogging under sterile conditions. Hydrophobic PTFE filters are suitable for venting purposes and are additionally available in special formats with activated carbon.



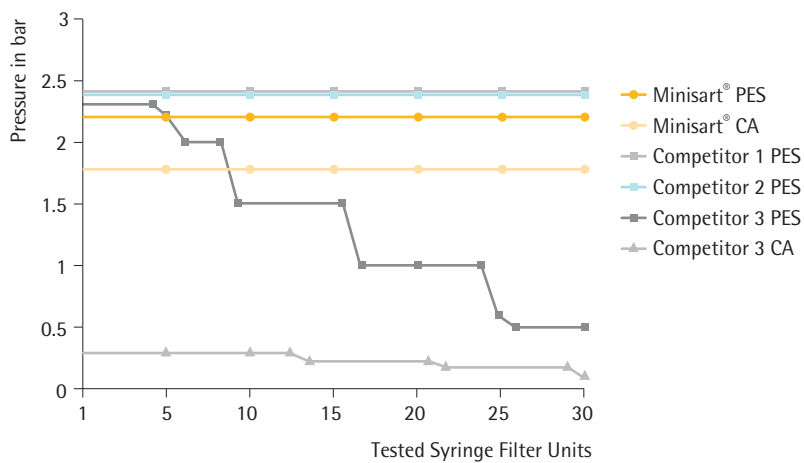
### Minisart® Features

- Low adsorption
- Minimum extractables
- PVC-free
- Gamma irradiated or EO sterilized
- Many CE-marked types
- Bidirectional use possible





## Premium Filters for Fail-Safe Filtration



### Procedure

Pressure-hold tests were performed by connecting pre-wetted syringe filter units to a 10-fold pressure device with manometer. The applied pressure equated 4/5 of the minimum bubble point. Units failed the test if they released air bubbles before reaching 4/5 of minimum bubble point. These units were remeasured to determine at which pressure air bubbles appear.

Result: Testing the pressure-hold capability of syringe filters revealed that many low-cost competitor filters are dysfunctional and not intact. Filtration performed with such filters lead to non-sterile filtrates or filtrates without an appropriate removal of particles.



Biocompatibility Certificate Minisart® HY



Biocompatibility Certificate Minisart® NML



Declaration of Conformity Minisart®

# Minisart® Syringe Filters – Specials

## Ordering Information

Ø mm	EFD <sup>1</sup>	Membrane	Housing	Pore Size	Connector Outlet	Color	Printing	Sterile*	Qty   Pk	Order No.	Marked?
<b>Minisart® NML (SFCA – Cellulose Acetate) Aqueous Filtration</b>											
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue			Yes	50	16534-----K	CE-marked
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue			Yes#	50	16534-----GUK	CE-marked
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue			No	500	16534-----Q	CE-marked
28 mm	SFCA	MBS	0.2 µm	Male Luer Slip	Blue			Yes	50	17597-----K	CE-marked
28 mm	SFCA	MBS	0.2 µm	Male Luer Slip	Blue			No	500	17597-----Q	CE-marked
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow			Yes	50	16555-----K	CE-marked
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow			Yes#	50	16555-----GUK	CE-marked
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow			No	500	16555-----Q	CE-marked
28 mm	SFCA	MBS	0.45 µm	Male Luer Slip	Yellow			Yes	50	17598-----K	CE-marked
28 mm	SFCA	MBS	0.45 µm	Male Luer Slip	Yellow			No	500	17598-----Q	CE-marked
28 mm	SFCA	MBS	5 µm	Male Luer Lock	Brown			Yes	50	17594-----K	CE-marked
<b>Minisart® Ophthalmart (SFCA – Cellulose Acetate) Aqueous Filtration</b>											
28 mm	Ophthalmart	MBS	0.2 µm	Male Luer Slip	Pink			Yes	50	17528-----K	CE-marked
<b>Minisart® High Flow (PES – Polyethersulfone) Aqueous Filtration and Mycoplasma Removal</b>											
28 mm	PES	MBS	0.1 µm	Male Luer Lock	Dark Red			Yes	50	16553-----K	
<b>Minisart® PES (Polyethersulfone) Aqueous Filtration</b>											
15 mm	PES	PP	0.22 µm	Male Luer Slip	White			Yes	50	1776D-----ACK	
<b>Minisart® Air (Hydrophobic PTFE) Venting</b>											
15 mm	PTFE	MBS	0.2 µm	Male Luer Slip	Yellow			No	500	1751A-----Q	
15 mm	PTFE	MBS	0.2 µm	Male Luer Slip + Needle	Yellow			Yes#	50	16596-----HNK	
<b>Minisart® HY (hydrophobic PTFE) CE-marked Venting &amp; Gas Filtration</b>											
26 mm	PTFE	MBS	0.2 µm	Male Luer Lock	Clear			Yes	50	16596-----HYK	CE-marked
26 mm	PTFE	MBS	0.2 µm	Male Luer Lock	Clear			No	500	16596-----HYQ	CE-marked
26 mm	PTFE	MBS	0.2 µm	Male Luer Lock <sup>a</sup>	Clear			No	500	16599-----HYQ	CE-marked
26 mm	PTFE	MBS	1 µm	Male Luer Lock	Clear			No	500	1659A-----HYQ	



Ø mm	EFD <sup>1</sup>	Membrane	Housing	Pore Size	Connector	Outlet	Color	Printing	Sterile*	Qty	Pk	Order No.	Marked?
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**Minisart® Acticosart with Dome Reservoir + Hydrophobic PTFE Venting & Ultracleaning of Gases**

26 mm		active carbon	MBS	0.45 µm	Male Luer Slip <sup>a</sup>	Blue		No		500		17840-----Q	
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**Minisart® SRP (Hydrophobic PTFE) CE-marked Venting & Gas Filtration**

25 mm		PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	Yes		50			17575-----ACK	CE-marked
25 mm		PTFE	PP	0.2 µm	Hose Barb	White	No		500			1757A-----Q	

**Minisart® PES- (Hydrophobic PES) Venting & Gas Filtration, Gamma Stable**

25 mm		PES-	PP	0.2 µm	Male Luer Slip	White, Printed	No		50			1757H-----K	
26 mm		PES-	PP	0.2 µm	Male Luer Slip	White, Printed	No		500			1757H-----Q	
25 mm		PES-	PP	0.2 µm	Hose Barbs <sup>b</sup>	White, Printed	No		50			1757G-----K	
26 mm		PES-	PP	0.2 µm	Hose Barbs <sup>b</sup>	White, Printed	No		500			1757G-----K	

\* Sterilized Minisarts are individually packaged. If not stated otherwise, Minisarts are sterilized by ethylene oxide.

#-mark indicates sterilization by gamma irradiation

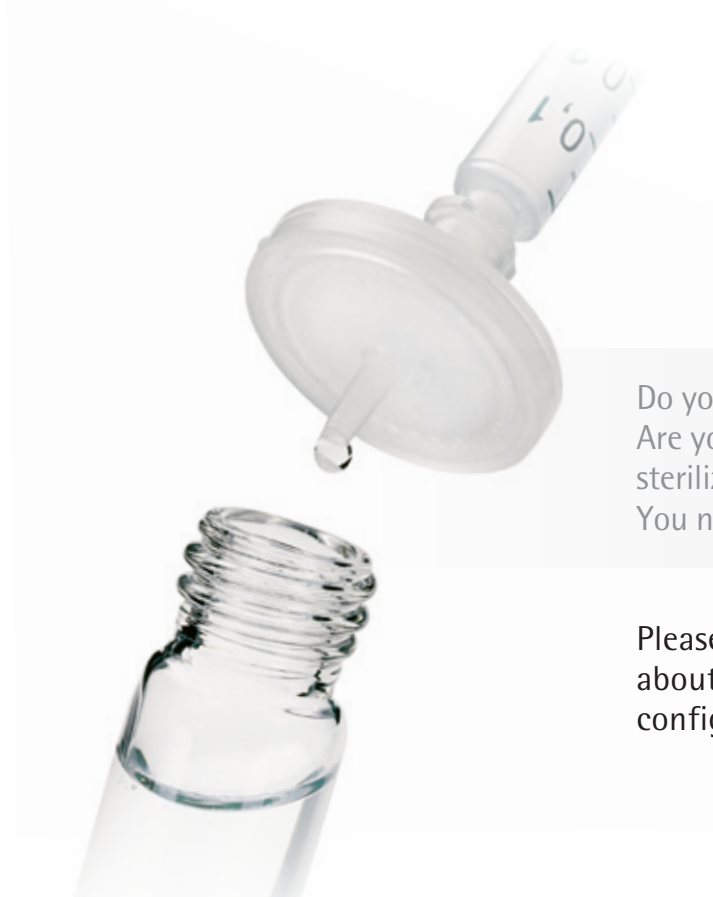
Minisarts NOT presterilized: SFCA can be sterilized by ethylene oxide or gamma irradiation. PTFE can be sterilized by ethylene oxide.

<sup>a</sup> Connector inlet: Male Luer slip (all other Minisarts have female luer lock inlets)

<sup>b</sup> Hose barbs, inlet and outlet, stepped 4.4 - 6 mm diameter

<sup>1</sup> EFD – Effective Filtration Diameter

For technical product specifications please see pages 20 and 22.



Do you need other pack sizes?  
Are you looking for special versions or  
sterilization requirements?  
You need other inlet and | or outlet connectors?

Please contact us to learn more  
about additionally available Minisart®  
configurations.

# Chemical Compatibility

	Material								Minisart® Types									
	PES membrane	SFCA membrane	PTFE membrane	RC membrane	Nylon membrane	GF depth filter	Housing MBS	Housing PP	Minisart® HighFlow	Minisart® NML Ophthalsart	Minisart® NML Plus	Minisart® NML GF	Minisart® HY	Minisart® Air	Minisart® RC	Minisart® NY	Minisart® NY Plus	Minisart® SRP
Filter Membrane	PES	SFCA	PTFE	RC	PA				PES	SFCA	SFCA		PTFE	RC	PA	PA	PTFE	PES
<b>Pre-Filter</b>						GF			-	-	GF	GF	-	-	-	GF	-	-
<b>Housing Material</b>							MBS	PP	MBS	MBS	MBS	MBS	MBS	PP	PP	PP	PP	PP
<b>Sterilization</b>																		
Ethylene oxide	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++
Gamma irradiation	++	++	- <sup>1</sup>	++	-	++	++	-	++	++	++	++	- <sup>1</sup>	-	-	-	-	-
Autoclaving 121 °C, 30 min	++	++	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++
<b>Solvents</b>																		
Acetone	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	-
Acetonitrile	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	-
Gasoline	+	++	++	++	++	++	+	++	+	+	+	+	+	++	++	++	++	+
Benzene	+	+	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	+
Benzyl alcohol	+	+	++	++	++	++	-	+	-	-	-	-	-	++	++	++	++	+
n-Butyl acetate	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	-
n-Butanol	++	++	++	++	++	++	+	++	+	+	+	+	+	++	++	++	++	++
Cellosolve	+	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	+
Chloroform	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	-
Cyclohexane	-	-	++	++	++	++	+	+	-	-	-	+	+	+	+	+	+	-
Cyclohexanone	-	-	++	++	++	++	-	+	-	-	-	-	-	+	+	+	+	-
Diethylacetamide	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	-
Diethyl ether	-	+	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	-
Dimethyl formamide	-	-	++	+	+	++	-	++	-	-	-	-	-	+	+	+	++	-
Dimethylsulfoxide	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	-
Dioxane	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	-
Ethanol, 98%	++	++	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++
Ethyl acetate	-	-	++	++	++	++	-	+	-	-	-	-	-	+	+	+	+	-
Ethylene glycol	++	+	++	++	++	++	++	++	++	+	+	++	++	++	++	++	++	++
Formamide	++	-	++	+	++	++	++	++	++	-	-	++	++	+	++	++	++	++
Glycerin	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++
n-Heptane	+	+	++	++	++	++	++	+	+	+	+	+	++	+	+	+	+	+
n-Hexane	+	+	++	++	++	++	++	+	+	+	+	+	++	+	+	+	+	+
Isobutanol	++	+	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++
Isopropanol	++	++	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++
Isopropyl acetate	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	-
Methanol, 98%	+	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	+
Methyl acetate	-	-	++	++	++	++	-	+	-	-	-	-	-	+	+	+	+	-
Methylene chloride	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	-
Methyl ethyl ketone	-	+	++	++	++	++	-	+	-	-	-	-	-	+	+	+	+	-
Methyl isobutyl ketone	-	-	++	++	++	++	-	+	-	-	-	-	-	+	+	+	+	-
Monochlorobenzene	+	+	++	++	++	++	-	+	-	-	-	-	-	+	+	+	+	+
Nitrobenzene	-	-	++	++	+	++	-	+	-	-	-	-	-	+	+	+	+	-
n-Pentane	++	++	++	++	++	++	+	+	+	+	+	+	+	+	+	+	+	+
Perchloroethylene	-	-	++	++	++	++	-	+	-	-	-	-	-	+	+	+	+	-

	Material								Minisart® Types									
	PES membrane	SFCA membrane	PTFE membrane	RC membrane	Nylon membrane	GF depth filter	Housing MBS	Housing PP	Minisart® HighFlow	Minisart® NML Ophthalsart	Minisart® NML Plus	Minisart® NML GF	Minisart® HY	Minisart® Air	Minisart® RC	Minisart® NY	Minisart® NY Plus	Minisart® SRP
Filter Membrane	PES	SFCA	PTFE	RC	PA				PES	SFCA	SFCA		PTFE	RC	PA	PA	PTFE	PES
Pre-Filter						GF			-	-	GF	GF	-	-	-	GF	-	-
Housing Material							MBS	PP	MBS	MBS	MBS	MBS	MBS	PP	PP	PP	PP	PP
Solvents (continued)																		
Pyridine	-	-	++	++	++	++	-	++	-	-	-	-	++	++	++	++	++	-
Carbon tetrachloride	-	-	++	++	++	++	-	+	-	-	-	-	+	+	+	+	+	-
Tetrahydrofuran	-	-	++	++	++	++	-	++	-	-	-	-	++	++	++	++	++	-
Toluene	-	+	++	++	++	++	-	+	-	-	-	-	+	+	+	+	+	-
Trichloroethane	-	-	++	++	+	++	-	+	-	-	-	-	+	+	+	+	+	-
Trichloroethylene	-	+	++	++	++	++	-	+	-	-	-	-	+	+	+	+	+	-
Xylene	-	+	++	++	++	++	-	+	-	-	-	-	+	+	+	+	+	-
<b>Acids</b>																		
Acetic acid, 25%	+	+	++	++	-	++	+	++	+	+	+	+	++	-	-	++	+	+
Acetic acid, 80%	-	-	++	+	-	++	-	+	-	-	-	-	+	-	-	+	-	-
Hydrofluoric acid, 25%	+	-	++	+	-	++	+	+	+	-	-	+	+	-	-	+	+	+
Hydrofluoric acid, 50%	+	-	++	+	-	++	-	+	-	-	-	-	+	-	-	+	+	+
Perchloric acid, 25%	-	-	++	-	-	++	-	+	-	-	-	-	-	-	-	-	+	-
Phosphoric acid, up to 10%	+	+	++	-	-	++	+	+	+	+	+	+	-	-	-	+	+	+
Phosphoric acid, 86%	+	+	++	-	-	++	-	+	-	-	-	-	-	-	-	+	+	+
Nitric acid, 30%	+	-	++	-	-	++	+	+	+	-	-	+	+	-	-	+	+	+
Nitric acid, conc.	-	-	++	-	-	++	-	-	-	-	-	-	-	-	-	-	-	-
Hydrochloric acid, 15%	++	+	++	-	-	++	+	+	+	+	+	+	-	-	-	+	+	+
Hydrochloric acid, 20%	++	-	++	-	-	++	+	+	+	-	-	+	+	-	-	-	+	+
Sulfuric acid, 25%	+	-	++	+	-	++	++	++	+	-	-	++	++	+	-	-	++	+
Sulfuric acid, 98%	-	-	++	-	-	++	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroacetic acid, 25%	-	-	++	++	-	++	-	+	-	-	-	-	+	-	-	+	-	-
<b>Bases</b>																		
Ammonia, 1N	++	+	++	+	++	++	+	++	+	+	+	+	+	+	++	++	++	++
Ammonium hydroxide, 25%	+	+	++	+	++	+	-	+	-	-	-	-	+	+	+	+	+	+
Potassium hydroxide, 32%	++	-	++	-	+	+	-	++	-	-	-	-	-	+	+	++	++	++
Sodium hydroxide, 1N	++	-	++	+	++	+	-	++	-	-	-	-	+	++	+	++	++	++
Sodium hydroxide, 32%	++	-	++	-	+	-	-	+	-	-	-	-	-	+	-	+	+	+
<b>Aqueous solutions</b>																		
Formaldehyde, 30%	+	++	++	+	++	++	+	+	+	+	+	+	+	+	+	+	+	+
Sodium hypochlorite, 5%	++	-	++	-	-	++	+	+	+	-	-	+	+	-	-	-	+	+
Hydrogen peroxide, 35%	++	-	++	-	-	++	+	++	+	-	-	+	+	-	-	-	++	++
<b>pH range</b>																		
pH 1-14	-	-	++	-	-	++	-	++										
pH 1-13	++	-	++	-	-	++	-	++										
pH 3-14	+	-	++	+	++	++	-	++										
pH 3-12	++	-	++	++	++	++	+	++										
pH 4-8	++	++	++	++	++	++	++	++										

**Legend**

High Resistance	++
Limited Resistance	+
Not Resistant	-

<sup>1</sup> gamma irradiation feasible for Minisart® Air

Contact time: 24 hours at 20 °C. Chemical compatibilities can be influenced by various factors. Therefore, we recommend that you confirm compatibility with the liquid you want to filter by performing a trial filtration run before you start your actual filtration.

# Minisart® with PP Housing

## Technical Specifications

### Specifications for

#### Minisart® RC | SRP | NY | PES with 4 | 15 | 25 mm membrane filtration diameter

Housing material	Polypropylene (PP)
Membranes	RC = Regenerated Cellulose   NY = Polyamide   SRP = hydrophobic PTFE = Polytetrafluoroethylene   PES = Polyethersulfone   PES- = hydrophobic PES
Glass fiber pre-filter	NY Plus: Ultrapure quartz, 0.7 µm particle retention
Application limits	Max. recommended operating pressure 4.5 bar   65 psi
Housing burst pressure	> 7 bar   102 psi
Max. temperature	121°C, 30 min (autoclavable)
Sterilization	Non-sterile Minisart® can be autoclaved or sterilized by ethylene oxide sterilization (EO)

Minisart® type with regards to membrane	RC 0.2 µm	RC 0.2 µm	RC 0.45 µm	SRP 0.2 µm	SRP 0.45 µm
Non-sterile packs: 50 (K), 200 (S), 500 (Q), 1000 (R)   sterile packs: individual packaged, 50 (ACK)	K   S   Q   R	ACK	K   S   Q   R	K   S   Q   ACK	K   S   Q
<b>Bubble point (≥)</b>	with water 3.0 bar   44 psi	with water 4.6 bar   67 psi	with water 2.0 bar   29 psi	with ethanol 1.1 bar   16 psi	with ethanol 0.9 bar   13 psi
<b>Flow rate (► ml/min), 4 mm Ø = 0.07 cm<sup>2</sup> filter area   Hold-up volume<sup>1</sup>: 5 – 10 µl</b>					
with water at 1 bar	0.5	–	1.5	– <sup>3</sup>	– <sup>3</sup>
with methanol at 1 bar	1.5	–	3.0	2.0	4.5
with air at 0.1 bar	– <sup>2</sup>	–	– <sup>2</sup>	30	60
<b>Flow rate (► ml/min), 15 mm Ø = 1.7 cm<sup>2</sup> filter area   Hold-up volume<sup>1</sup>: 30 – 100 µl</b>					
with water at 1 bar	20	10	40	– <sup>3</sup>	– <sup>3</sup>
with methanol at 1 bar	55	25	105	55	150
with air at 0.1 bar	– <sup>2</sup>	– <sup>2</sup>	– <sup>2</sup>	800	1600
<b>Flow rate (► ml/min), 25 mm Ø = 4.8 cm<sup>2</sup> filter area   Hold-up volume<sup>1</sup>: 100 – 200 µl</b>					
with water at 1 bar	80	50	160	– <sup>3</sup>	– <sup>3</sup>
with methanol at 1 bar	160	90	325	160	260
with air at 0.1 bar	– <sup>2</sup>	– <sup>2</sup>	– <sup>2</sup>	1800	3000
<b>Water penetration point</b>	–	–	–	> 4.0 bar   58 psi <sup>3</sup>	> 3.0 bar   44 psi <sup>3</sup>
<b>Sterile filtration capability acc. to BCT</b>	no <sup>5</sup>	yes	no	yes	no
<b>Pyrogen free according to USP</b>		yes <sup>6</sup>		yes <sup>6</sup>	
<b>Cytotoxicity (17575-ACK)</b>	No inhibition with MRC-5 (human lung cells) and L929				

<sup>1</sup> Hold-up volume after air purge.

<sup>2</sup> Hydrophilic membranes can filter dry air or gas but become impermeable to air or gas when wetted!

<sup>3</sup> Hydrophobic membranes cannot be wetted with aqueous solutions unless you overcome their water penetration point or pre-wet them using an organic solvent (e.g. ethanol)

<sup>4</sup> PES is suitable for solutions only containing up to 30% MeOH

<sup>5</sup> According to bacterial challenge test (BCT) with 10<sup>7</sup> Brevundimonas diminuta. Non-sterile RC Minisart® types are optimized for sample preparation and are not suitable for sterile filtration according to the BCT. All other non-sterile Minisart® types with 0.2 mm pore size can be sterilized by autoclaving or EO before use for sterile filtration.

<sup>6</sup> For sterile packs ACK



NY 0.2 µm	NY 0.45 µm	NY Plus 0.2 µm	NY Plus 0.45 µm	PES 0.2 µm	PES- 0.2 µm
K   Q   R   ACK	K   Q   R   ACK	K   Q	K   Q	K   Q   ACK	
with water 3.0 bar   44 psi	with water 2.0 bar   29 psi	with water 3.0 bar   44 psi	with water 2.0 bar   29 psi	with water 3.2 bar   46 psi	with ethanol 0.95 bar   13.8 psi
-	-	-	-	1.5	-
-	-	-	-	- <sup>4</sup>	-
-	-	-	-	- <sup>2</sup>	-
20	40	-	-	40	-
40	110	-	-	- <sup>4</sup>	-
- <sup>2</sup>	- <sup>2</sup>	-	-	- <sup>2</sup>	-
50	100	50	100	100	- <sup>3</sup>
70	200	70	200	- <sup>4</sup>	- not determined
- <sup>2</sup>	- <sup>2</sup>	- <sup>2</sup>	- <sup>2</sup>	- <sup>2</sup>	1200
-	-	-	-	-	> 3.0 bar   44 psi
yes	no	yes	no	yes	yes
yes <sup>6</sup>				yes <sup>6</sup>	

# Minisart® with MBS Housing

## Technical Specifications

### Specifications for

**Minisart® High Flow | NML | NML Plus** with 28 mm accessible membrane filtration diameter, 100 – 150 µl hold-up volume<sup>1</sup>

**Minisart® HY | Acticosart** with 26 mm accessible membrane filtration diameter, 100 – 150 µl hold-up volume<sup>1</sup>

**Minisart® Air** with 15 mm accessible membrane filtration diameter, 100 µm hold-up volume<sup>1</sup>

Housing material	Methacrylate butadiene styrene (MBS)
Membranes	High Flow: PES = Polyethersulfone, NML: (SF) CA = (Surfactant-free) Cellulose Acetate, NML Plus: (SF) CA = (Surfactant-free) Cellulose Acetate, HY   Acticosart   Air: hydrophobic PTFE = Polytetrafluoroethylene
Glass fiber pre-filter	NML Plus: Binder-free GF, 0.7 µm particle retention
Application limits	High Flow: Max. recommended operating pressure 6.0 bar   87 psi NML, NML Plus, HY, Air: Max. recommended operating pressure 4.5 bar   65 psi Acticosart: Max. recommended operating pressure 1 bar   14.5 psi
Housing burst pressure	> 7 bar   102 psi (not determined for Acticosart)
Max. temperature	60°C, not autoclavable
Sterilization	Non-sterile Minisart® High Flow, NML, NML Plus can be sterilized by ethylene oxide (EO) or Gamma sterilization Non-sterile Minisart® HY, Acticosart, Air* can be sterilized by ethylene oxide (EO)

Minisart® type with regards to membrane	PES 0.1 µm	PES 0.2 µm	PES 0.45 µm	CA 0.2 µm	CA 0.45 µm	CA 0.65 µm	CA 0.8 µm
Non-sterile packs: 500 (Q, HYQ), 1000 (R), sterile packs: individual packaged, 50 (K, GUK, HYK, HNK)	K	K   GUK   Q	K   GUK   Q	K   GUK   Q	K   GUK   Q	K	K   GUK   Q
<b>Bubble point (≥)</b>	with water 5.0 bar   73 psi	with water 3.2 bar   46 psi	with water 2.0 bar   29 psi	with water 3.2 bar   46 psi	with water 2.0 bar   29 psi	with water 1.3 bar   19 psi	with water 0.8 bar   12 psi

### Flow rate for<sup>2|3</sup> (► ml/min)

28 mm Ø with water at 1 bar	40	140	220	60	180	250	400
15 mm Ø with air at 0.1 bar	-	-	-	-	-	-	-
26 mm Ø with air at 0.1 bar	-	-	-	-	-	-	-

### Water penetration point

	-	-	-	-	-	-	-
--	---	---	---	---	---	---	---

### Sterile filtration capability<sup>3</sup> acc. to BCT

	yes	yes	no	yes	no	no	no
--	-----	-----	----	-----	----	----	----

### Pyrogen free according to USP

	yes <sup>4</sup>	yes <sup>4</sup>	yes <sup>4</sup>	yes <sup>4</sup>	yes <sup>4</sup>	yes <sup>4</sup>	yes <sup>4</sup>
--	------------------	------------------	------------------	------------------	------------------	------------------	------------------

### Cytotoxicity

	No inhibition with MRC-5 (human lung cells) and L929						
--	--	--	--	--	--	--	--

<sup>1</sup> Hold-up volume after air purge.

<sup>2</sup> Hydrophobic membranes cannot be wetted with aqueous solutions unless you overcome their water penetration point.

<sup>3</sup> According to bacterial challenge test (BCT) with 10<sup>7</sup> Brevundimonas diminuta. All non-sterile Minisart® types listed above can be sterilized according to the sterilization recommendation in this table.

<sup>4</sup> For sterile packs K | GUK

\* Minisart® Air can be sterilized by Gamma sterilization according to the following parameters: Range 25 – 40 kGy (validated with 50 kGy).



CA 1.2 µm	CA 5.0 µm	GF+CA 0.2 µm	GF+CA 0.45 µm	GF+CA 1.2 µm	GF 0.7 µm	PTFE 0.2 µm	PTFE 1.0 µm	Actico- sart	PTFE (Air) 0.2 µm
K   Q	K   Q	K   Q	K   Q	Q	K   Q	HYK   HYQ   Q	HYQ	Q	Q   HNK
with water 0.7 bar   10 psi	with water 0.4 bar   6 psi	with water 3.2 bar   46 psi	with water 2.0 bar   29 psi	with water 0.7 bar   10 psi	with water 0.5 bar   7 psi	with ethanol 1.4 bar   20 psi	with ethanol 0.5 bar   7 psi	with ethanol 0.9 bar   13 psi	with ethanol 1.0 bar   14.1 psi
500	600	60	160	350	450	-	-	-	-
-	-	-	-	-	-	-	-	-	800
-	-	-	-	-	-	2000	4000	2300	-
-	-	-	-	-	-	>4.0 bar   58 psi <sup>2</sup>	>1.5 bar   22 psi <sup>2</sup>	n.a.	>3.2 bar   46 psi <sup>2</sup>
no	no	yes	no	no	no	yes	no	n.a.	yes
yes <sup>4</sup>	yes <sup>4</sup>					yes <sup>4</sup>			

# Sartolab® Filters

## Vacuum Filtration and Pressure Filtration Devices

Sartolab® P20 Pressure Filtration Devices with 0.2 µm SFCA or 0.22 µm PES membrane with and without GF pre-filter are convenient filtration units for 500 ml to 5 L sample volumes. Especially Sartolab® P20 can be used to collect the filtrate in any required container or for in-line filtration. The polycarbonate housing and membrane components are suitable for many aqueous solutions. The GF pre-filter types are mainly suitable for environmental samples with high particle load prior to analytics.



Sartolab® Vacuum Filtration Devices with 0.1 µm and 0.22 µm PES membranes are convenient filtration units for 150 ml to 1 L sample volume. Sartolab® RF as a complete system includes receiver flasks. Sartolab® BT is a bottle top filter without receiver flasks enabling customers to use their own receiver bottles and to expand the filtration capacity depending on the particle load of the filtered liquid by filling more than one receiver flask. Sartolab® 150V is a disposable vacuum filter with a pleated 0.22 µm PES membrane which is suitable for filtration of up to 15 L liquid.

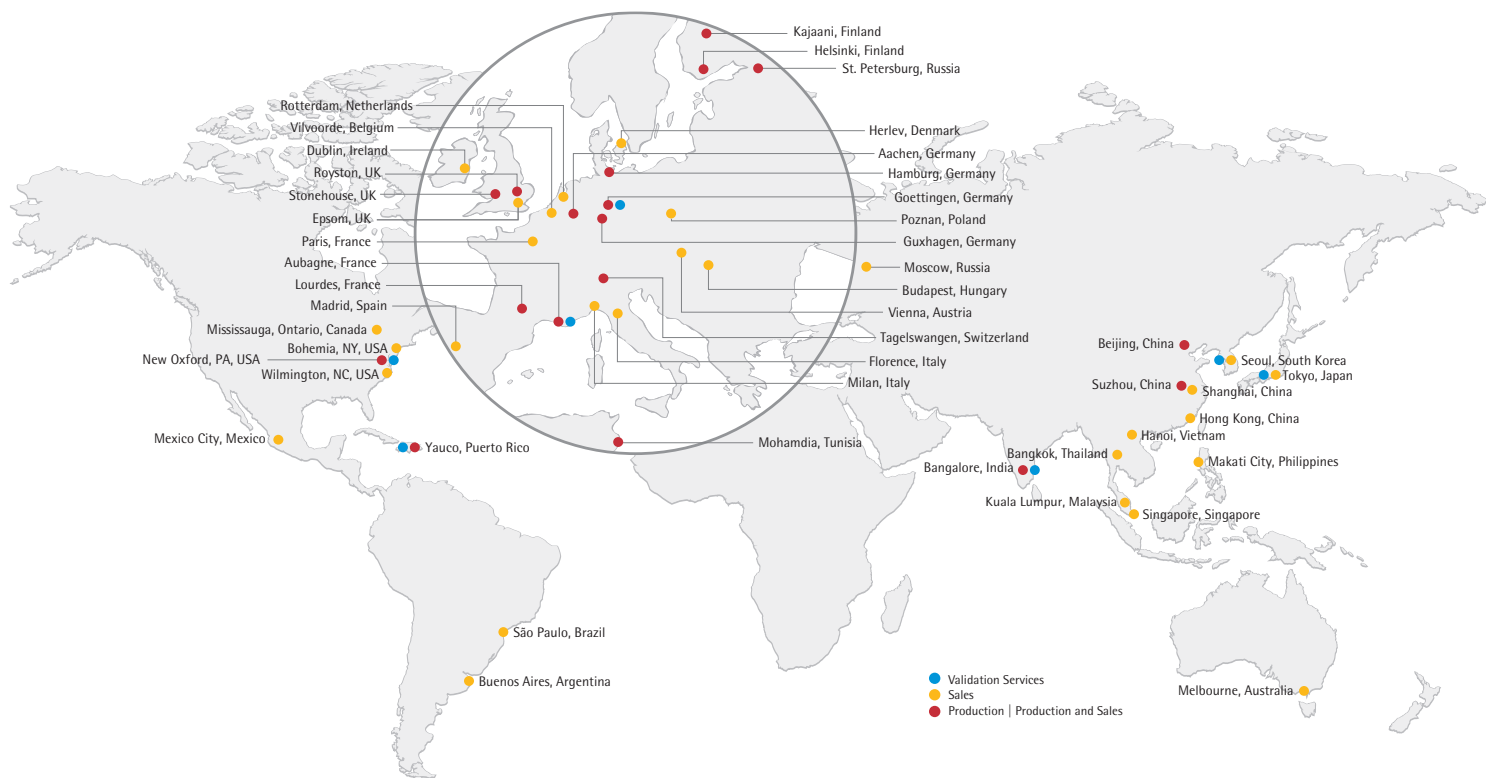


Please contact us to learn more about Sartolab® filtration units and additional Sartorius filtration solutions.



# Confidence<sup>®</sup> – Validation Services

## Our Services at a Glance



Multi-site laboratories offer globally integrated Validation Services.

Every Sartorius Stedim Biotech product used in critical steps in the pharmaceutical industry is manufactured with complete traceability of materials. The extensive data obtained in our validation guides and extractables guides form a comprehensive basis for the safety assessment of your respective process and drug product. Given the latest developments in regulatory requirements, our in-depth knowledge of actual drug product testing is a key element of our Confidence<sup>®</sup> Validation Services. Our product array includes, but is not limited to, the following:

Filter Elements	Fluid Management Containers	Polymer-based Process Components
Extractables   Leachables Studies	Extractables   Leachables Studies	Extractables   Leachables Studies
Physico-Chemical Studies	Physico-Chemical Studies	
Microbiological Studies	Microbiological Studies	

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# Sales and Service Contacts

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