

Membrane Filters and Filter Holders

Information Guide

Simplifying Progress

SARTURIUS



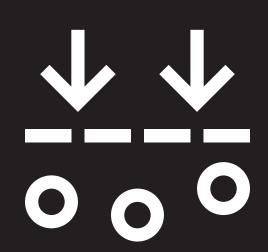
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Membrane Filters

High Efficiency Membranes for Filtration and Venting Applications



Sartorius produces a wide variety of microporous membranes that are especially designed, developed and manufactured to meet differing needs of the biotechnology industry. Backed up by many decades of experience in membrane manufacturing and by utilizing the most state-of-the-art production equipment on the market, we guarantee excellent performance, consistent quality and a reliable supply of our membrane products.

Membrane processes are one of the most effective separation processes, and they are steadily under development leading to new prospects of their applications. Sartorius' membranes are available in a wide variety of different pore sizes and structures, as well as surface properties to serve nearly unlimited selectivity of separation.

Microporous membranes can be composed of various polymers that differ from one another in their chemical and physical properties. Together with the characteristics of the filter pores these polymer properties govern the results in many filtration applications. The table below provides an overview which polymeric matrices are available at Sartorius portfolio.



Polymer	Features	Typical Applications	
Cellulose acetate (CA)	High flow rates Thermal stability Very low non-specific adsorption	Protein filtration Biological and clinical analysis	
Cellulose nitrate (CN)	Very high protein and DNA binding	Cell retention Buffer filtration Microbiological testing	
Regenerated cellulose (RC)	Strong chemical resistance Low protein binding	Particle removal from organic and aqueous media Ultracleaning of solutions for HPLC	
Polyamide (PA)	ide (PA) Chemically resistant to alkaine solutions and organic solvents Filtra		
Polyethersulfone (PES) Low content of extractables High flow rates		Mycroplasma retentive filtration - bioburden reduction	
Polytetrafluoroethylene (PTFE)	Permanently hydrophobic membranes Broad chemical compatibility	Air and gas filtration Filtration of solvents with very high or low pH value	



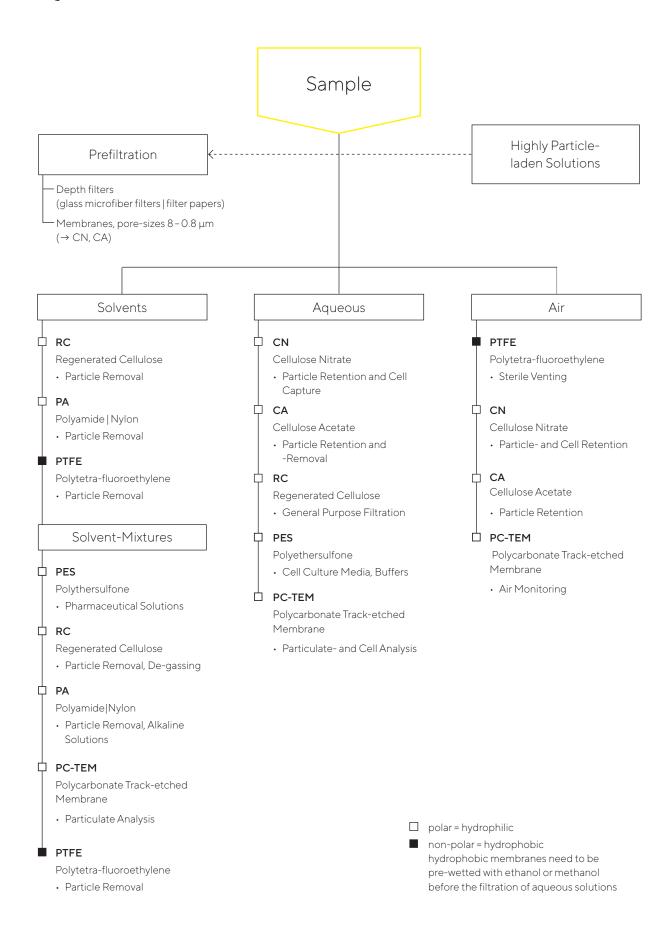
User Benefits

- Sartorius core competency
- Covers essential applications in the life science industry
- · Highly individual product range
- Available in a wide range of diameters and membrane types



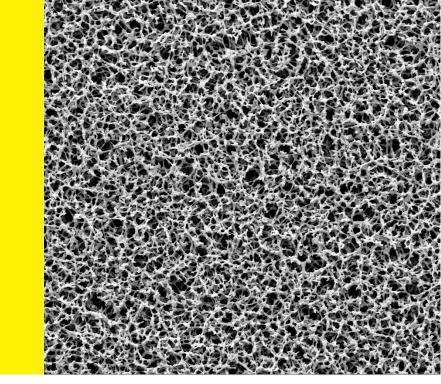
Membrane Filtration

Quick Selection Guide



Cellulose Nitrate (Mixed Cellulose Esters)

Cellulose nitrate membrane filters are hydrophilic, have high flow rates thanks to their symmetrical structure and are compatible with aqueous solutions (pH 4–8), hydrocarbons and several other organic solvents. These cellulose nitrate membranes are available in different pore sizes from 0.2 μ m to 8 μ m.



Typical Performance Characteristics

Pore Size (µm)	Туре	Thickness (µm)	Water Flow Rate (mL min cm2 bar)	Thermal Resistance max. (°C)	Bubble Point (bar)
0.2	11327	130	25	130	≥ 4.4
0.45	11306	120	68	130	≥ 2.4
0.65	11305	120	102	130	≥ 2.0
0.8	11304	130	5*	130	≥ 1.5
1.2	11303	130	7*	130	≥ 1.0
3	11302	140	16*	130	≥ 0.6
5	11342	140	25*	130	≥ 0.5
8	11301	140	37*	130	≥ 0.3

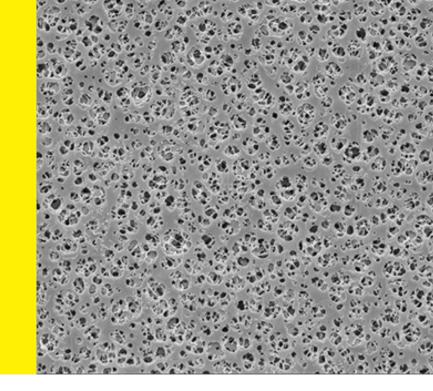
^{*}Flow rate for air [L | (m²s)]

Ø (mm)	0.2 μm	0.45 μm	0.65 μm	0.8 μm	1.2 μm	3 μm	5 μm	8 μm
13	1132713N	1130613N	1130513N	1130413N	1130313N	1130213N	1134213N	1130113N
25	1132725N	1130625N	1130525N	1130425N	1130325N	1130225N	1134225N	1130125N
47	1132747N	1130647N	1130547N	1130447N	1130347N	1130247N	1134247N	1130147N
50		1130650N	1130550N	1130450N	1130350N	1130250N	1134250N	1130150N
90		1130690N		1130490G	1130390G	1130290G		
100		11306-100N	11306-100N	11304-100G	11303-100G	11302-100G		11301-100N
142	11327-142N	11306-142N	11305-142G	11304-142G 11304-142N	11303-142G 11303-142N	11302-142G	11342-142G 11342-142N	11301-142G
150						11302-150G	11342-150G	11301-150G
293		11306-293G 11306-293N	11305-293G	11304-293G 11304-293N	11303-293G	11302-293G	11342-293G	11301-293G

 $G=25\ filters,\ N=100\ filters\ |\ Other\ dimensions\ and\ quantities\ per\ package\ are\ available\ on\ request$

Cellulose Acetate

Cellulose acetate membranes combine thermal stability with exceptionally low adsorption characteristics. They are hydrophilic, have high flow rates thanks to their symmetrical structure and are compatible with aqueous solutions (pH 4–8), oils, alcohols and other organic solvents. These cellulose acetate membranes are available in different pore sizes from 0.2 to 5 μm .



Typical Performance Characteristics

Pore Size (μm)	Туре	Thickness (μm)	Water Flow Rate (mL min cm2 bar)	Thermal Resistance max. (°C)	Bubble Point (bar)
0.2	11107	120	24	180	≥ 2.9**
0.45	11106	120	65	180	≥ 2.0
0.65	11105	120	116	180	≥ 1.3
0.8	11104	120	6*	180	≥ 0.8
1.2	12303	140	10*	180	≥ 0.6
5	12342	140	23*	180	≥ 0.3

^{*}Flow rate for air [L | (m^2s)]

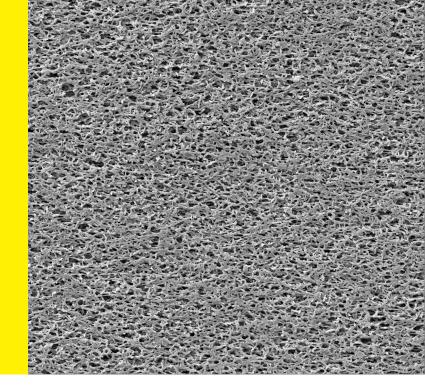
Ø (mm)	0.2 μm	0.45 μm	0.65 μm	0.8 µm	1.2 μm	5 μm
13	1110713N	1110613N		1110413N		
25	1110725N	1110625N	1110525N	1110425N	1230325N	1234225N
30	1110730N					
47	1110747N	1110647N	1110547N	1110447N	1230347N	1234247N
50	1110750N	1110650N	1110550N	1110450N	1230350N	
90	1110790G	1110690G	1110590G	1110490N		
100	11107-100N 11107-100G	11106-100N 11106-100G			12303-100G	
142	11107-142G 11107-142N	11106-142G 11106-142N	11105-142G 11105-142N	11104-142G 11104-142N	12303-142G 12303-142N	
293	11107-293G 11107-293N	11106-293G 11106-293N	11105-293G	11104-293G 11104-293N		

G = 25 filters, N = 100 filters | Other dimensions and quantities per package are available on request

^{**} with Sartocheck*

Polyamide

Polyamide membrane filters are hydrophilic and chemically resistant to alkaline solutions and organic solvents.



Typical Performance Characteristics

Pore Size (μm)	Туре	Thickness (μm)	Water Flow Rate (mL min cm2 bar)	Thermal Resistance max. (°C)	Bubble Point (bar)
0.2	25007	110	24	100	≥ 3.3
0.45	25006	110	46	100	≥ 2.3

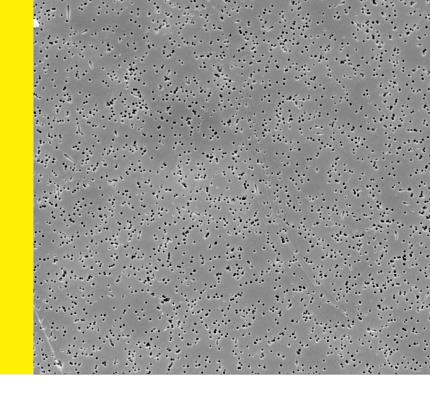
^{*}Max. continuous operating temperature in water

Ø (mm)	0.2 μm	0.45 μm	
13	2500713N	2500613N	
25	2500725N	2500625N	
47	2500747N	2500647N	
50	2500750N	2500650N	
90	2500790G	2500690G	
142	25006-142N	25007-142N	
293	25006-293N	25007-293N 25007-293G	

 $G=25\ filters,\ N=100\ units\ |\ Other\ dimensions\ and\ quantities\ per\ package\ are\ available\ on\ request$

Polycarbonate Track-Etched

White and hydrophilic polycarbonate track-etched membranes are manufactured from high-grade polycarbonate film using track-etch technology. Their capillary pore structure is uniform and precise, with a narrow pore size distribution.



Typical Performance Characteristics

Pore Size (µm)	Туре	Thickness (μm)	Water Flow Rate (mL min cm2 0,7 bar)	Thermal Resistance max. (°C)	Bubble Point (bar)
0.1	23058	25	0.5	140	≥7
0.2	23007	25	10	140	≥ 3.5
0.4	23006	25	30	140	≥ 2.0
0.8	23004	25	40	140	≥ 0.6
5	23A42	25	50*	140	N/A
15	23015	25	100*	140	N/A

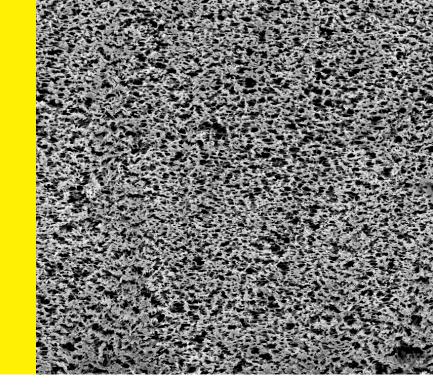
^{*}Flow rate for air [L | (m^2s)]

Ø (mm)	0.1 μm	0.2 μm	0.4 μm	0.8 μm
25	2305825N	2300725N	2300625N	2300425N
47	2305847N	2300747N	2300647N	
50		2300750N		

G = 25 pieces, K = 50 pieces, N = 100 pieces | Other dimensions and quantities per package are available on request

Polyethersulfone

Hydrophilic polyethersulfone membranes have high flow rates, a low non-specific protein adsorption and are chemically resistant over a pH range of 1–14. They are therefore recommended for the filtration of aqueous solutions as well for protein filtration.



Typical Performance Characteristics

Туре	Pore Size (µm)	Thickness (μm)	Bubble Point (bar)	Water Flow Rate (mL min cm2 bar)	Thermal Resistance max. (°C)
15458	0.1	150	≥ 2.5*	9	200
15407MI	0.2	140	≥ 3.2	30	200
15406	0.45	150	≥ 2.6	45	200
15404	0.8	150	≥ 1.1	125	200

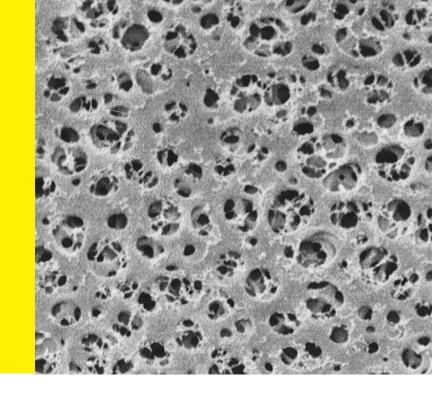
^{*} with isopropyl alcohol | water 60 vol% | 40 vol%

Ø (mm)	0.1 μm	0.2 μm	0.45 μm	0.8 μm
25	1545825N	1540725MIN	1540625N	
47	1545847N	1540747MIN	1540647N	
50	1545850N	1540750MIN	1540650N	
142		15407-142MIG	15406-142G	
293	15458-293G	15407-293MIG		15404-293G

 $G=25\ pieces,\ K=50\ pieces,\ N=100\ pieces\ |\ Other\ dimensions\ and\ quantities\ per\ package\ are\ available\ on\ request$

Regenerated Cellulose

The very low adsorption membranes are hydrophilic, solvent-resistant (pH 3-12) and, therefore, suited for the particle removal from solvents. The membrane is reinforced with nonwoven cellulose. They are available in two pore sizes: $0.45 \, \mu m$ and $0.2 \, \mu m$.



Typical Performance Characteristics

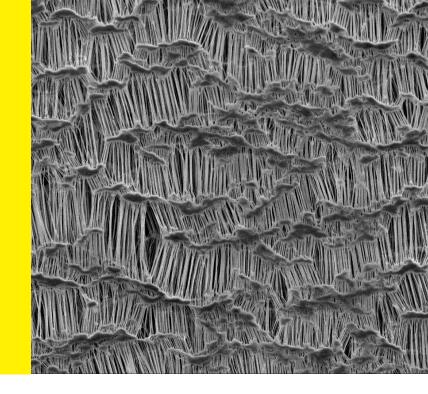
Туре	Pore Size (μm)	Thickness (μm)	Bubble Point (bar)	Water Flow Rate (mL min cm2 bar)
18407	0.2	150	≥ 4.5	16
18406	0.45	150	≥ 2.9	32

Ø (mm)	0.2 μm	0.45 μm	
13	1840713N	1840613N	
25	1840725N	1840625N	
47	1840747N	1840647N	
50	1840750N	1840650N	
100	18407-100G	18406-100G	
142	18407-142G 18407-142N	18406-142G	
293	18407-293G	18406-293G	

G = 25 pieces, N = 100 pieces | Other dimensions and packaging units are available on request

Polytetrafluoroethylene

PTFE filters are permanently hydrophobic. These membrane filters feature excellent chemical compatibility (pH 1 to 14) so they are also used for filtration of solvents and acids that cannot be filtered using other filter types due to a lack of or limited compatibility.



Typical Performance Characteristics

Pore Size (μm)	Туре	Thickness (μm)	Isopropanol Flow Rate (mL min cm2 bar)	Thermal Resistance max. (°C)	Bubble Point (bar)
0.2	11807	60	9	200	≥1.2
0.45	11806	80	20	200	≥ 0.9
1.2	11803	100	86	200	N/A
5	11842	100	250	200	N/A

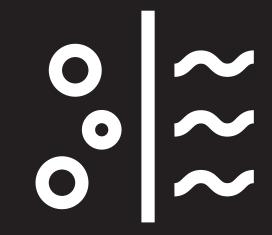
Ø (mm)	0.2 μm	0.45 μm	0.8 μm	1.2 µm	5 μm
13	1180713N	1180613N		1180313N	
25	1180725N	1180625N	1184225N	1180325N	
47	1180747N	1180647N	1184247N	1180347N	
50	1180750N	1180650N	1184250N	1180350N	
90	1180790G	1180690G		1180390G	
100	11807-100G	11806-100G	11842100N	11803-100G	11842-100G
142	11807-142G	11806-142G		11803-142G	11842-142G
293	11807-293G	11806-293G		11803-293G	11842-293G
293	11807-293G	11806-293G		11803-293G	11

 $G=25\ filters,\ N=100\ filters\ |\ Other\ dimensions\ and\ quantities\ per\ package\ are\ available\ on\ request$



Filter Holders

Robust and efficient filtration accessoires are required to ensure reliable removal of particles in every filtration run. Sartorius facilitates your filtration procedures by offering a wide selection of filter holders.



Sartorius offers a broad range of application based solutions that fits laboratory needs as well as analytical testing outside the laboratory. Filter holders are used to support membrane filters. They also provide sealing around the filter, to prevent contamination of the filtrate. To ensure best results different housings guarantee a burdenless workflow using various chemicals and solutions. Combined with the extraordinary quality of our membranes we make sure to simplify the progress of filtration steps in a convenient, easy-to-use manner that is highly individualized. In addition, convenience is achieved by tackling the huge volume of disposable products and eliminating the need to purchase new filter accessories for standardised laboratory procedures. Since the filter holders are made to be easily rinsed and autoclaved, they are excellently suited in repetitive analysis steps.

Our range of filter holders has recently been extended to include larger diameters (142 mm - 293 mm). Not only do we meet your need to filter over a larger area, but we also offer new applications that go hand in hand with this transfer. Sterile filtration, clarification and filtration of media are just a few. By providing an economical alternative to disposable filtration methods, it will lead to cost savings in the short term due to autoclavability of the devices.

Going through this informative guide you will gain detailed information on the specific set ups and learn how to properly adopt this product line into your laboratory portfolio.

Order No.	Material	Suitable membrane diameter
16309	Glass	47 mm 50 mm
16306	Glass	25 mm
16315	Glass	25 mm
16307	Glass	47 mm 50 mm
16316	Glass	47 mm 50 mm
16574	PTFE	13 mm
16514E	Polycarbonate	13 mm
16517E	Polycarbonate	25 mm
16508B	Polycarbonate	50 mm (40 or 42 mm prefilter)
16214	Stainless Steel	25 mm

Order No.	Material	Suitable membrane diameter
16251	Stainless Steel	25 mm (20 mm prefilter)
16254	Stainless Steel	47 mm (40 or 42 mm prefilter)
16278	Stainless Steel	47 mm (40 or 42 mm prefilter)
16249	Stainless Steel	47 mm (40 or 42 mm prefilter)
162493	Stainless Steel	47 mm (40 or 42 mm prefilter)
16274	Stainless Steel	143 mm (130 mm prefilter)
16275	Stainless Steel	142 mm (130 mm prefilter)
16276	Stainless Steel	143 mm (130 mm prefilter)
16277	Stainless Steel	293 mm (279 mm prefilter)

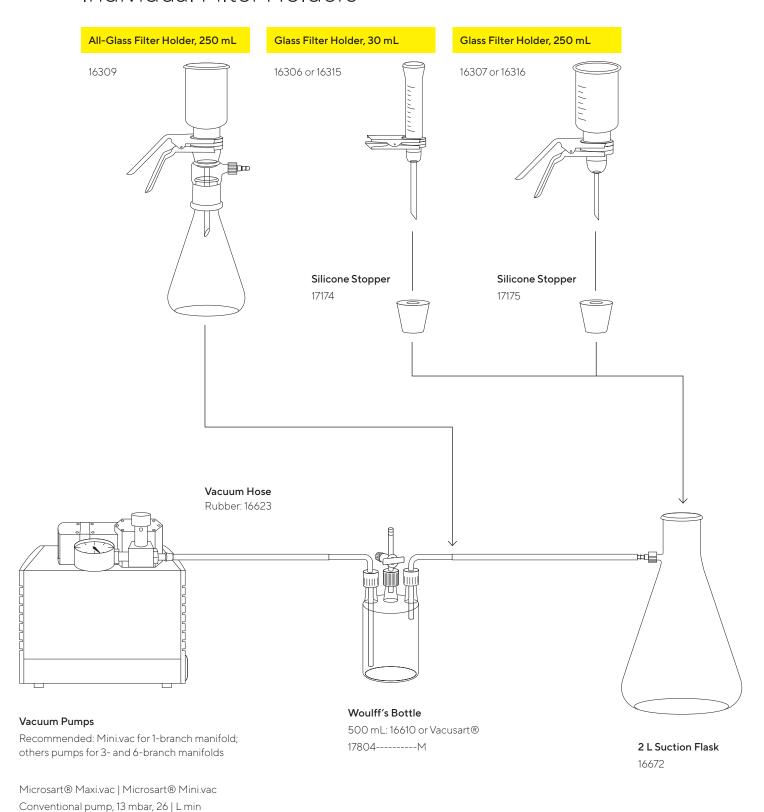


User Benefits

- Re-usabel
- Available in different materials and sizes
- · Affordable alternative for retentate testing
- · Time-saving due to parallel testing with a manifold

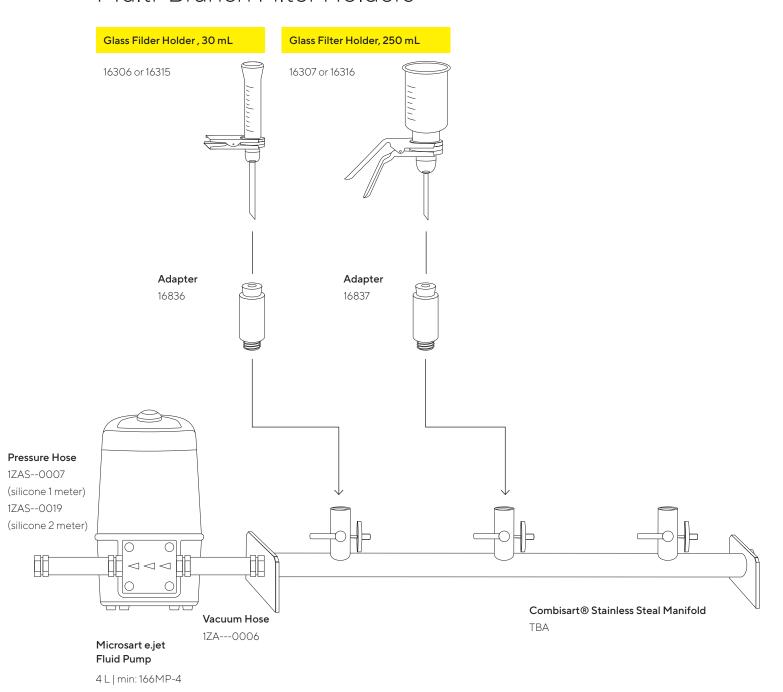
Selection of Filtration Accessories for Parallel Vacuum Filtration

Individual Filter Holders



Conventional pump, 100 mbar, 20 | L min

Multi-Branch Filter Holders

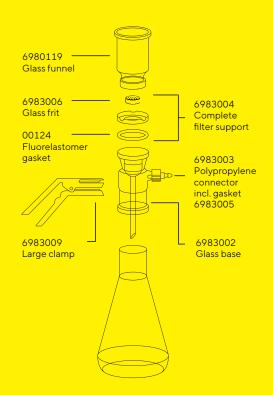


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All-Glass Vacuum Filter Holder

All areas where liquid and device can come into direct contact are made of glass or PTFE. Several features ensure convenient handling. A 6-mm-wide, non-ground rim above the ground glass neck of the suction flask prevents the filtrate from coming in contact with grease on the ground glass surface, thus preventing it from contamination while being poured out of the flask.





Specifications

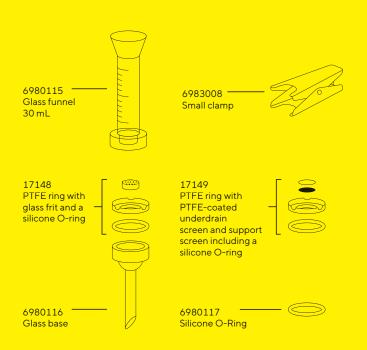
Borosilicate glass funnel, base and flask; sintered glass frit in a PTFE ring and fluoroelastomer O-ring (45 × 3 mm) underneath; anodized aluminium clamp	
As for glass and PTFE	
250 mL	
1 Liter	
12.5 cm²	
Only for vacuum	
47 mm 50 mm	
By autoclaving (max. 134 °C) or by dry heat (max. 180 °C)	

Description	Order No.
All-glass vacuum filter holder for 50 mm	16309
(or 47 mm) membrane filter, with vacuum-	
resistant flask, capacity 1 Liter	

Glass Vacuum Filter Holders

This filter holder is available in two versions that differ from each other only in the type of the filter support. The filter holder with a glass frit ensures uniform distribution of retained particles and is therefore recommended if the residue on the filter surface is of interest. Because it is easy to clean, the filter holder with the PTFE-coated screen support is preferable if the filtrate is required or if liquids difficult to remove from the glass frit need to be examined.



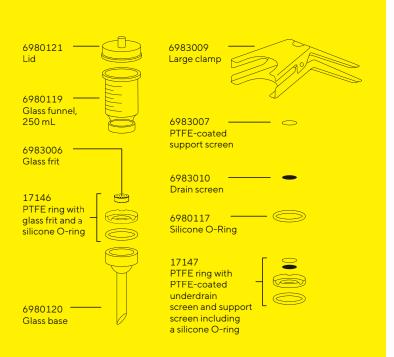


Note: PTFE rings in sets 17148 and 17149 have different dimensions and are not interchangeable.

25 mm Glass Vacuum Filter Holder Specifications

Base outlet	12 mm diameter	
Parts and materials	Borosilicate glass funnel and base; PTFE glass filter support (type 16306) or PTFE stainless steel filter support, coated with PTFE (type 16315) Silicone O-ring 25 × 3 mm Anodized aluminum clamp	
Chemical compatibility	As for glass, PTFE and silicone. The silicone O-ring can be replaced by a fluoroelastomer O-ring (order no. 00118)	
Funnel capacity	30 mL	
Filtration area	3 cm²	
Max. operating pressure	Only for vacuum	
Suitable membrane filter diameter	25 mm	
Sterilization	By autoclaving (max. 134 °C) or by dry heat (max. 180 °C)	





50 mm Glass Vacuum Filter Holder Specifications

Base outlet	15 mm diameter
Parts and materials	Borosilicate glass funnel and base Silicone rubber lid PTFE glass filter support (type 16307) or PTFE stain- less steel filter support, coated with PTFE (type 16316) Silicone O-ring 45 + 3 mm Anodized aluminum clamp
Chemical compatibility	As for glass, PTFE and silicone The silicone O-ring can be replaced by a fluoroelastomer O-ring (order no. 00124).
Funnel capacity	250 mL
Filtration area	12.5 cm²
Max. operating pressure	Only for vacuum
Suitable membrane filter diameter	47 mm 50 mm
Sterilization	By autoclaving (max. 134 °C) or by dry heat (max. 180 °C)

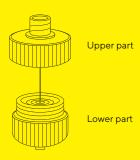
Description	Order No.
Glass vacuum filtration holder for 25 mm membrane filter, with glass frit filter support	16306
Glass vacuum filtration holder for 25 mm membrane filter, with PTFE-coated screen filter support	16315
Glass vacuum filtration holder for 50 mm (or 47 mm) membrane filter, with glass frit filter support	16307
Glass vacuum filtration holder for 50 mm (or 47 mm) membrane filter, with PTFE-coated screen filter support	16316

Re-usable 13 mm Syringe Filter Holder (PTFE)

Made completely of PTFE, this holder is unaffected by chemicals and contains no trace elements which could be released into the liquid being filtered. It is, therefore, extremely well suited for particle removal from samples and reagents for analytical methods, such as NMR samples.







Specifications

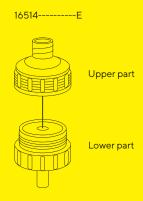
Connectors	Female Luer Lock inlet, luer slip outlet	
Chemical compatibility	As for PTFE	
Filtration area	0.5 cm2	
Materials	PTFE top and bottom parts	
Max. operating pressure	5 bar 500 kPa 72.5 psi	
Membrane filter Ø	13 mm	
Sterilization	By autoclaving (max. 134 °C) or by dry heat (max. 180 °C)	
Hold-up volume	Less than 0.03 mL after overcoming the bubble point (0.3 mL before)	

Description	Order No.
13 mm PTFE Syringe Filter Holder	16574

Re-usable 13 mm Syringe Filter Holder (Polycarbonate)

Another inexpensive filter holder is made of clear, autoclavable polycarbonate. The silicone gasket enables a leak-free filtration at pressures of up to 7 bar by simply screwing it together manually. Filter supports in the top and bottom parts allow filtration in either direction.





Specifications

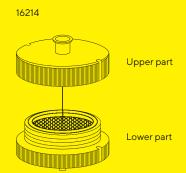
Connectors	Female Luer Lock inlet, luer slip outlet
Chemical compatibility	As for polycarbonate and silicone
Filtration area	0.5 cm2
Materials	Polycarbonate top and bottom part, silicone gasket
Max. operating pressure	7 bar 700 kPa 101.5 psi
Membrane filter Ø	13 mm
Sterilization	By autoclaving at 121 °C
Hold-up volume	Less than 0.2 mL after overcoming the bubble point (0.3 mL before)

Description	Order No.
13 mm Polycarbonate Syringe Filter Holder	16514E

Re-usable 25 mm Syringe Filter Holder (Steel)

Made of stainless steel, this holder is heat-resistant, and the chemical compatibility depends only on the inserted filter type. The top part can easily be mounted on the bottom part using the enclosed tightening tool. Filter supports in the top and bottom parts allow filtration in either direction.





Specifications

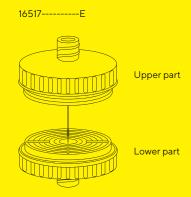
Connectors	Female Luer Lock inlet, luer slip outlet
Chemical compatibility	As for stainless steel
Filtration area	3 cm2
Materials	Stainless steel (1.4305) top and bottom parts
Max. operating pressure	7 bar 700 kPa 101.5 psi
Membrane filter Ø	25 mm
Sterilization	By autoclaving (max. 134 °C) or by dry heat (max. 180 °C)
Hold-up volume	Less than 0.1 mL after overcoming the bubble point (0.3 mL before)

Description	Order No.
25 mm Stainless Steel Holder	16214
Tightening tool, Polyman 24/5	6980595

Re-usable 25 mm Syringe Filter Holder (Polycarbonate)

Another inexpensive filter holder is made of clear, autoclavable polycarbonate. The silicone gasket enables a leak-free filtration at pressures of up to 7 bar by simply screwing it together manually. Filter supports in the top and bottom parts allow filtration in either direction.





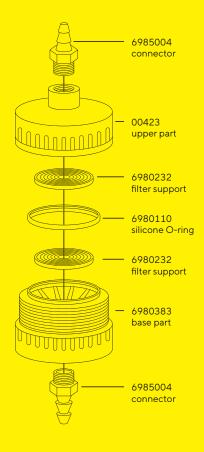
Specifications

Connectors	Female Luer Lock inlet, luer slip outlet
Chemical compatibility	As for polycarbonate and silicone
Filtration area	3 cm2
Materials	Polycarbonate top and bottom parts, silicone gasket
Max. operating pressure	7 bar 700 kPa 101.5 psi
Membrane filter Ø	25 mm
Sterilization	By autoclaving at 121 °C
Hold-up volume	Less than 0.3 mL after overcoming the bubble point (0.6 mL before)

Description	Order No.	
25 mm Polycarbonate Syringe Filter Holder, pack of 12	16517E	
Silicone gasket, 20.5 × 26.5 × 0.5 mm, pack of 10	6980570	

50 mm Polycarbonate In-Line Filter Holder

This holder is made of stable, autoclavable polycarbonate. This practical holder is suitable for many simple laboratory filtrations. It can be connected to a peristaltic pump or a pressure container. The bell-shaped base protects the filtrate from repeated contamination while flowing in a receiver. The holder is characterized by an excellent resistance to pressure and density setting by simple hand-tightening. The transparent top part allows the visual control of the correct fit of the O-ring. The hose nipples can be replaced by luer connectors to use it as a large area syringe filter holder.





Specifications

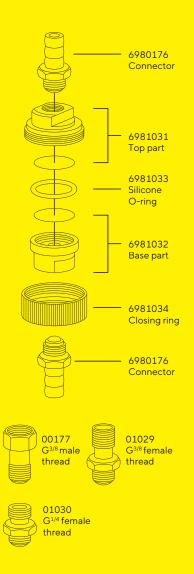
Chemical compatibility	As for polycarbonate, polypropylene and silicone
Filtration area	12.5 cm2
Weight	83 g
Connectors	M 12x1 male thread to hose barb DN10
Materials	Polycarbonate top part, base part and hose nipple, polypropylene filter support, silicone O-ring (40 × 5 mm)
Max. operating pressure	7 bar 700 kPa 101.5 psi
Suitable membrane filter Ø	50 mm (40 or 42 mm prefilter)
Sterilization	By autoclaving at 121 °C The material withstands repeated cycles, provided aggressive cleaning agents are completely washed off and that the boiler water does not contain anti-corrosive or anti-scaling additives.

Description	Order No.
Polycarbonate in-line filter holder for 50 mm	16508B
membrane filter, pack of 5.	

25 mm Stainless Steel Filter Holder

The G¼ connection of the 25 mm filter holder threads with density barrel, guarantee leak-proof sealing of the hose nipple and the holder without sealing rings.





Specifications

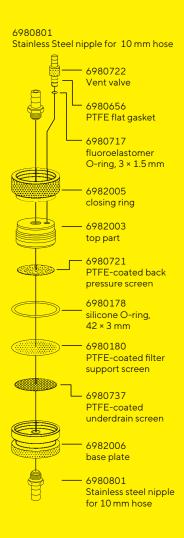
Connectors	M 12x1 male thread to hose barb DN10
Filtration area	3 cm2
Weight	ca. 170 g
Materials	Stainless steel, except silicone O-ring (21 × 2 mm) and aluminium closing ring
Max. operating pressure	5 bar 500 kPa 72.5 psi
Suitable membrane filter	25 mm (20 mm prefilter for the filtration of liquids only)
Sterilization	By autoclaving (max. 134 °C) or by dry heat (max. 180 °C)

Description	Order No.
Stainless steel pressure filter holder for 25 mm Ø membrane filter.	16251

47 mm Stainless Steel Filter Holder

The 47 mm filter holder is suitable for a pressure of up to 20 bar. The inlet side valve is convenient for the intermittent run-off of waste water.





Specifications

Connectors	M 12x1 male thread to hose barb DN10
Filtration area	13 cm2
Weight	ca. 490 g
Materials	Stainless steel, except silicone O-ring (42 × 3 mm), PTFE and fluoroelastomer valve seals
Max. operating pressure	20 bar 2,000 kPa 290 psi
Suitable membrane filter	47 mm (40 or 42 mm prefilter)
Sterilization	By autoclaving (max. 134 °C) or by dry heat (max. 180 °C)

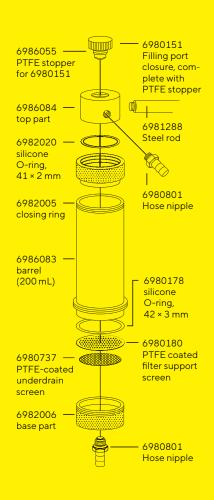
16254
16278
69807211
69801801
00181
6981132
170901

47 mm Stainlees Steel <u>Press</u>ure Filter Holder

A practical filter holder for many laboratory filtrations. It can be attached to a tripod with the help of a steel rod which can be screwed in. The hose nipple is screwed into the side of the top part, leaving room for a large filling opening. This makes pouring in the sample easier, and the sample can be refilled without removing the tube connection to the pressure source.







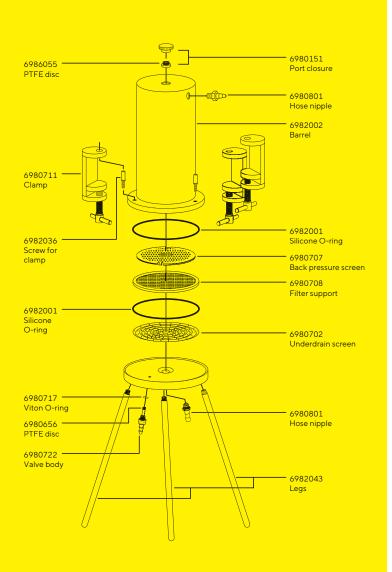
Specifications

As for stainless steel, PTFE and silicone. If required, the silicone O-ring in the filter support can be replaced by a fluoroelastomer O-ring 00179 or a PTFE O-ring 17038 (by reducing the max. operating pressure to 4 bar 58 psi); the silicone O-ring in the top part can be replaced by a fluoroelastomer O-ring 17145.
13 cm2
960 g
M 12x1 male thread to hose barb DN10
Top part, barrel, base part, corrugated iron, closing ring, closure cap, back pressure screen and stainless steel hose nipples 1.4401 (AISI 316), PTFE-coated stainless steel filter support, silicone O-rings, 41 × 2 mm (top part) and 42 × 3 mm (filter support), PTFE-sealing (cap).
10 bar 1,000 kPa 145 psi
47 mm (40 or 42 mm prefilter)
By autoclaving (max 134 °C) or by dry heat (180 °C)

Description	Order No.
Stainless steel pressure filter holder	16249
Stainless steel pressure filter holder with double jacket	162493

Large Stainless Steel Pressure Filter Holder

This holder is widely used in laboratories for particle removal and for sterile filtration of several liters of volume and can hold filter discs up to a diameter of 142 mm. It has a stable construction and is easy to operate. In addition, this filter holder has an integrated funnel with a capacity of 2 liters, eliminating the need for an additional pressure vessel. The large filtration area of 130 cm² ensures a high flow rate for the total filter volume.





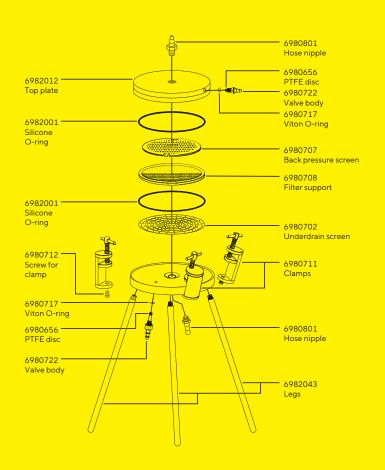
Stainless steel pressure filter holder (142 mm, 2000 mL)

Specifications

Connectors	M 12x1 male thread to hose barb DN10
Filtration area	130 cm²
Capacity	2000 mL
Weight	12 kg
Materials	Stainless steel 1.4401, except silicone O-ring (280 mm × 4 mm)
Max. operating pressure	7 bar
Suitable membrane filter Ø	142 mm (130 mm prefilter)
Sterilization	By autoclaving (max. 134 °C) or by dry heat (max. 180 °C)

Large Stainless Steel In-Line Filter Holder

This holder is widely used in laboratories for particle removal and for sterile filtration of several liters of volume and can hold filter discs up to a diameter of 142 mm. This in-line filter is installed directly in the fluid flow path, making it easy to integrate into your filtration system. The supplied unscrewable hose nipples can be replaced by G3/8 connectors, if systems with particularly practical handling are required.





Stainless steel in-line filter holder (142 mm)

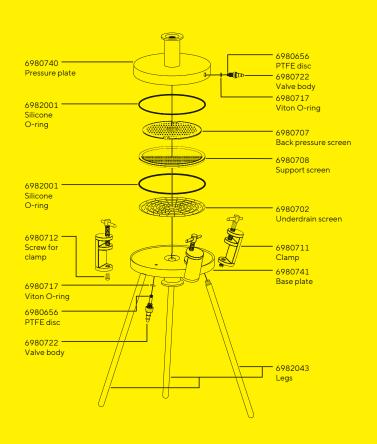
Specifications

Connectors	M 12x1 male thread to hose barb DN10
Filtration area	130 cm²
Weight	12 kg
Materials	Stainless steel 1.4401, except silicone O-ring (130 mm × 4 mm)
Max. operating pressure	7 bar
Suitable membrane filter Ø	142 mm (130 mm prefilter)
Sterilization	By autoclaving (max. 134 °C) or by dry heat (max. 180 °C)

Description	Order No.
Stainless steel pressure filter holder, 142 mm, 2000 mL	16274
Stainless steel in-line filter holder, 142 mm	16275
O-Ring EPDM 130.00 × 4.00 mm	6982071
O-Ring Fluoroelastomer 130.00 × 4.00 mm	6982070
Back pressure screen uncoated, Mat 316	6982017
Support screen uncoated, Mat 316	6982018

Large Stainless Steel In-Line Filter Holder

This holder is widely used in laboratories for particle removal and for sterile filtration of several liters of volume and can hold filter discs up to a diameter of 142 mm. It is supplied with a Tri Clamp (TC) connection, which is widely used in industries with stringent hygiene requirements because it is easy to clean and maintain. This in-line filter is installed directly in the fluid flow path, making it easy to integrate into your filtration system.





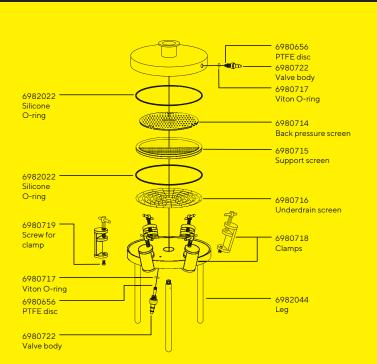
Stainless steel in-line filter holder (142 mm)

Specifications

Connection	TC 50.5
Filtration area	130 cm²
Weight	6 kg
Materials	Stainless steel 1.4401, except silicone O-ring (130 mm × 4 mm)
Max. operating pressure	7 bar
Suitable membrane filter Ø	142 mm (130 mm prefilter)
Sterilization	By autoclaving (max. 134 °C) or by dry heat (max. 180 °C)

Large Stainless Steel In-Line Filter Holder

This holder is widely used in laboratories for particle removal and for sterile filtration of several liters of volume and can hold filter discs up to a diameter of 293 mm. It is supplied with a Tri Clamp (TC) connection, which is widely used in industries with stringent hygiene requirements because it is easy to clean and maintain. This in-line filter is installed directly in the fluid flow path, making it easy to integrate into your filtration system.





Stainless steel in-line filter holder (293 mm)

Specifications

Connection	TC 50.5
Filtration area	560 cm²
Weight	20 kg
Materials	Stainless steel 1.4401, except silicone O-ring (280 mm × 4 mm)
Max. operating pressure	5 bar
Suitable membrane filter Ø	293 mm (279 mm prefilter)
Sterilization	By autoclaving (max. 134 °C) or by dry heat (max. 180 °C)

Description	Order No.
Stainless steel in-line filter holder, 142 mm	16276
Stainless steel in-line filter holder, 293mm	16277
O-Ring EPDM 130.00 × 4.00 mm	6982071
O-Ring Fluoroelastomer 130.00 × 4.00 mm	6982070
Back pressure screen uncoated, Mat 316	6982017
Support screen uncoated, Mat 316	6982018
O-Ring EPDM 280.00 × 4.00 mm	6982077
O-Ring Fluoroelastomer 280.00 × 4.00 mm	6982078
Back pressure screen uncoated, Mat 316	6982027
Support screen uncoated, Mat 316	6980653

Chemical Compatibility

Filter Materials

	Cellulose Acetate	Cellulose Nitrate	Reg. Cellulose	PTFE	Polyamide	Glass Fiber	Polycar- bonate	Polyether- sulfone
Solvents	111	113	184	118	250	250 134		154
Acetone	-	-	MR/TE TO US	weste to us	-	ANITE TO UZ		-
Acetonitrile	?	?	warre To us	weste to us	-	?	?	werre to us
Benzene	APITE TO US	esit fous	WAITE TO US	esitt To us	warts to us	WRITE TO US	?	warre TO UZ
Benzyl alcohol	APRITE TO ME	WESTE TO US	warre To us	WRITE TO US	warts to us	WRITE TO US	?	-
n-Butyl acetate	APITE TO US	-	WAITE TO US	WRITE TO US	#81TE 70 US	WRITE TO UZ	esitt To us	warre TO UZ
n-Butanol	ANTE TO VZ	estr to us	warte To us	WRITE TO US	wasta To us	ARTE TO US	este tous	warre rous
Carbon tetrachloride	ARTE TO VZ	WSITE TO US	warre To us	WRITE TO US	65115 20 U.S	warte To US	?	werre to us
Cellosolve	ASSTE TO ME	-	warte To us	ASUTE TO US	?	WRITE TO US	-	warra To us
Chloroform	-	esto to us	warte to us	WRITE TO US	wasts To us	warre To us	-	-
Cyclohexane	ASSTE TO ME	estra To uz	warte to us	ASUTE TO US	?	WRITE TO US	ASUTE TO US	-
Cyclohexanone	-	-	warnt To us	WRITE TO US	#6110 70 US	warre To us	?	?
Diethylacetamide	-	-	warre To us	WRITE TO US	#6110 70 US	warre To us	?	?
Diethyl ether	**************************************	-	WRITE TO US	WRITE TO US	#51TE TO US	warte To US	WRITE TO US	?
Dimethyl formamide	-	_	WAITE TO US	WRITE TO US	#81TE 70 US	warre To us	-	?
Dimethylsulfoxide	-	-	WAITE TO US	WRITE TO US	#81TE 70 US	warre To US	-	_
Dioxane	-	-	warte to us	WRITE TO US	WEITE SU OZ	warte To uz	-	esită TO US
Ethanol, 98%	watte 10 bs	WRITE TO US	WAITE TO US	WRITE TO US	#81TE 70 US	warre To us	WRITE TO US	esitt To UZ
Ethyl acetate	-	-	#BSTE TO US	WRITE TO US	WEITE SU OZ	warte To uz	?	-
Ethylene glycol	watte 10 bs	WRITE TO US	MBTE TO US	WRITE TO US	?	warre To us	WRITE TO US	esitt To UZ
Formamide	?	?	?	WRITE TO US	?	warte To uz	-	?
Gasoline	92111 10 US	WRITE TO US	#BITE TO US	WRITE TO US	WRITE TO UZ	warte To US	WRITE TO US	esito To us
Glycerine	with the state of	WRITE TO UZ	#BSTE TO US	WRITE TO US	WRITE TO UZ	warte To uz	WRITE TO US	esită TO US
n-Heptane	92111 10 US	WRITE TO US	#BITE TO US	WRITE TO US	?	WESTE TO US	?	?
n-Hexane	went To Us	WRITE TO US	#BITE TO US	WRITE TO US	WRITE TO UZ	WESTE TO US	WRITE TO US	?
Isobutanol	watte 10 bs	WRITE TO US	MBTE TO US	WRITE TO US	Walte TO UZ	wisht To US	WRITE TO US	?
Isopropanol	went To Us	WRITE TO US	#BITE TO US	WRITE TO US	WRITE TO UZ	WESTE TO US	WRITE TO US	WRITE TO US
Isopropyl acetate	watte 10 bs	-	MBTE TO US	WRITE TO UZ	?	wisht To US	?	wante to us
Methanol, 98%	92111 10 US	-	#BITE TO US	WRITE TO US	?	WESTE TO US	WRITE TO US	WRITE TO US
Methyl acetate	-	-	#BITE TO US	WRITE TO US	WRITE TO UZ	WESTE TO US	?	-
Methylene chloride	-	WRITE TO UZ	#BSTE TO US	WRITE TO US	WRITE TO UZ	WESTE TO US	_	-
Methyl ethyl ketone	-	-	#BITE TO US	WRITE TO US	WRITE TO US	esite To us	?	-
Methyl isobutyl ketone	#91T TO US	_	#8stt foug	warre to us	WRITE TO UZ	ests To us	?	?
Monochlorobenzene	#51T TO US	warre TO us	MRITE TO US	warre to us	WRITE TO UZ	ests To us	_	?
Nitrobenzene	#91T TO US	warre TO us	WRITE TO US	warre to us	WRITE TO UZ	ests To us	_	?
n-Pentane	#801E 50 US	WRITE TO US	ASSITE TO US	MISTO TO US	WRITE TO US	WESTE TO US	warte To us	?
Perchloroethylene	MOTE TO US	warre TO us	WRITE TO US	WESTE TO US	warte to us	ests To us	warte to uz	?
Pyridine	-	-	WRITE TO US	#2511 TO U2	Walte To Us	witte To us	_	-
	_	_	WRITE TO UZ	esitt To us	warts to us	WRITE TO US	_	_

	Cellulose Acetate	Cellulose Nitrate	Reg. Cellulose	PTFE	Polyamide	Glass Fiber	Polycar- bonate	Polyether- sulfone
Solvents	111 113	113 184 118 250 134 2	230	154				
Toluene	WOTE TO US	esoto To us	WRITE TO US	esiti To us	WRITE TO US	ARITO TO US	?	warre to us
Trichloroethane	WOTE TO US	esoto To us	warrs rolus	esiti To us	?	ARITE TO US	?	?
Trichloroethylene	WOTE TO US	66710 TO US	warrs rolus	esiti to us	WRITE TO US	ARITE TO US	_	warre to us
Xylene	ARITO TO VZ	45111 TO 102	waste ro uz	World To US	watti To uz	West TO 92	#10115 10 UZ	waite 10 Uz
Acids								
Acetic acid, 25%	WEITE TO UZ	881TE 10 UZ	warts to us	WRITE TO UZ	wishts to up	?	WEST D TO UZ	warre to us
Acetic acid, 96%	_	_	waste rous	WRITE TO UZ	-	?	?	warre to us
Hydrochloric acid, 25%	-	esite To us	-	WRITE TO UZ	-	?	estt foud	warre to us
Hydrochloric acid, 37%	_	_	_	WRITE TO UZ	-	?	wishte to us	warre to us
Hydrofluoric acid, 25%	WRITE TO UZ	esite To us	waste rouz	WRITE TO UZ	-	?	World To US	?
Hydrofluoric acid, 50%	MOTO TO UZ	esite to us	_	WRITE TO UZ	-	?	WOITE TO US	?
Perchloric acid, 25%	-	881TE 10 UZ	warts to us	WRITE TO UZ	-	?	?	?
Phosphoric acid, 25%	WEITE TO UZ	881TE TO US	warts to us	WRITE TO UZ	-	?	?	?
Phosphoric acid, 85%	WRITE TO UZ	881TE 10 UZ	warts to us	WRITE TO UZ	-	?	-	?
Nitric acid, 25%	-	851TE TO US	-	WRITE TO UZ	-	?	WRITE TO UZ	WSITE TO US
Nitric acid, 65%	-	-	-	WRITE TO UZ	-	?	WRITE TO US	erstro To us
Sulfuric acid, 25%	-	ARITE TO US	warrs rolus	ARITE TO US	-	warts to us	?	WESTE TO US
Sulfuric acid, 98%	-	-	-	ARITE TO US	-	?	_	?
Trichloroacetic acid, 25%	-	warre fo us	wisting TO UZ	WRITE TO US	-	?	?	?
Bases								
Ammonium, 1N	warre to uz	WRITE TO UZ	#8116 70 UZ	WRITE TO US	wishts to up	WATE TO US	-	WSITE TO US
Ammonium hydroxide, 25%	-	WRITE TO UZ	-	WRITE TO US	#510 TO U2	wartt fo us	-	#5110 70 US
Potassium hydroxide, 32%	_	_	#6010 70 UZ	warre To us	Warte To UZ	warre to us	_	wishte To us
Sodium hydroxide, 32%	-	-	#60TG 70 UZ	warre To us	Warte To UZ	warre To us	-	wishte To us
Sodium hydroxide, 1N	warre fo uz	-	esate 20 uz	warre to us	e8 TE	etatt to uz	_	esste 20 uz
Aqueous Solutions								
Formaline, 30%	warrd TO UZ	WRITE TO US	#53TE 70 UZ	warre to us	WRITE TO UZ	9811 10 US	WRITE TO US	WESTE TO US
Hydrogen peroxide, 35%	warte	ARITE TO US	#81TE	warre to us	MRITE WRITE	?	?	?
Sodium hypochlorite, 5%	waitt TO US	WRITE TO US	est To us	warte To us	wants TO US	MSITE TO US	?	?

Key to Symbols

■ = Compatible ■ = Limited compatibility

- = Not compatible ? = Not tested

E = Compatible after replacing the silicone O-ring with an EPDM O-ring

 $V = Compatible \ after \ replacing \ the \ silicone \ O-ring \ with \ a \ fluoroelastomer \ O-ring$

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 wish to filter by performing a trial filtration run before you begin with actual filtration.

Chemical Compatibility Filter Holder - O-Ring Materials

	Glass	Poly- carbonate	Poly- propylene	PTFE	Stain- less-Steel	EPDM O-Ring	PTFE O-Ring	Silicone O-Ring	Fluoro- elastomer O-Ring
Solvents									
Acetone	esta to us	waitt to us	MSTE TO US	warts TO US	665TB TO US	warte To us	este tous	-	-
Acetonitrile	esta to us	?	e SITE TO US	warts To US	WESTE TO US	WRITE TO US	esite to us	-	e SITE TO US
Benzene	wssti To uz	_	_	wante fo us	MENTE TO US	-	esitt fous	-	MSITE TO US
Benzyl alcohol	wisht To US	-	weste to us	WRITE TO US	WESTE TO US	waite to us	WESTE TO US	waite to us	WESTE TO US
n-Butyl acetate	esti To uz	-	esitt to us	WRITE TO US	esti To uz	waite to us	WESTE TO US	-	-
n-Butanol	#61T 70 US	WRITE TO US	esito to us	WRITE TO US	MISTE TO US	ARITE TO US	esito To us	ARITE TO US	esito To us
Carbon tetrachloride	MISTE TO US	-	esit to us	WRITE TO US	este To us	-	esito To us	-	esitt To us
Cellosolve	#FOTE TO US	-	-	WRITE TO US	erate To us	ARITE TO US	esitt To us	-	-
Chloroform	WRITE TO US	-	_	WRITE TO US	WRITE TO US	-	WRITE TO US	_	warte to us
Cyclohexane	WRITE TO US	WRITE TO UZ	warte To US	WRITE TO US	ware To us	-	waite To us	-	warre To uz
Cyclohexanone	WRITE TO US	-	WESTE TO US	WRITE TO US	WRITE TO US	-	WESTE TO US	-	-
Diethylacetamide	warre To us	-	?	WRITE TO US	warre To us	?	WRITE TO US	ARITE TO US	-
Diethyl ether	with the total of	-	waite to us	este to us	warre To us	_	WRITE TO US	-	-
Dimethyl formamide	warte To us	_	warte To us	e for us	warte To us	este To us	WRITE TO US	estra To us	-
Dimethylsulfoxide	warra To us	?	?	MRITE TO US	warte To us	?	WRITE TO US	weste To us	_
Dioxane	warte To us	-	WRITE TO US	ests to us	WRITE TO US	e Situ To us	ARITE TO US	-	_
Ethanol, 98%	WRITE TO US	WRITE TO US	WRITE TO UZ	ente To us	WRITE TO US	este To us	ARITE TO US	estra To us	AND TO US
Ethyl acetate	WRITE TO UZ	-	WRITE TO UZ	ente ro us	WRITE TO US	este To us	ARITE TO US	_	_
Ethylene glycol	WRITE TO US	#RITE TO US	WRITE TO US	e for us	WRITE TO US	este To us	WRITE TO US	estra To us	AND TO US
Formamide	WRITE TO UZ	_	WRITE TO UZ	warte To us	WRITE TO US	warte To us	ARITE TO US	_	AND TO US
Gasoline	ANTE TO US	WRITE TO US	WRITE TO US	WRITE TO US	ASITE TO VS	_	ASITE TO US	_	MRITO TO US
Glycerine	ASITE TO US	WRITE TO US	WRITE TO US	WRITE TO US	ASITE TO VS	WRITE TO US	ASITE TO US	WRITE TO US	MRITO TO US
n-Heptane	WRITE TO US	WRITE TO US	warre to us	warte to us	WRITE TO US	-	WRITE TO US	warre To us	WRITE TO US
n-Hexane	WESTE TO US	WRITE TO US	wistra To us	WRITE TO US	estr To us	_	MSSTE TO US	_	MISTE TO US
Isobutanol	WSITE TO US	WRITE TO US	wisite to us	warte to us	wishte To US	warre To us	weste to us	warre To us	WESTE TO US
Isopropanol	WSTE TO US	warts To us	wisite to us	warte To us	wishte To us	warre To us	west to to us	warre To us	WESTE TO US
	WSITE TO US	WRITE TO US	wisite to us	warte To us	wishte To US	warre To us	weste to us	_	_
Methanol, 98%	wishte To us	_	wisite to us	warte to us	wishte To us	warre to us	west to to us	warre to us	WESTE TO US
Methyl acetate	WESTE TO US	?	wsitt to us	WRITE TO US	WESTE TO US	WRITE TO US	esti to us	_	_
Methylene chloride	wsite to us	_	_	warte to us	wishte To us	_	WESTE TO UZ	_	WESTE TO US
Methyl ethyl ketone	W510 TO U2	-	W5511 TO U2	WRITE TO US	W5110 TO U2	warre to uz	W5511 TO U2	-	_
Methyl isobutyl ketone	warre to us	_	?	warte to us	warre To us	_	warra To uz	-	_
Monochlorobenzene	warre four	_	021TE TO US	WRITE TO US	warre To uz	_	021TE TO US	_	warrd To US
Nitrobenzene	warre four	_	VSITE TO US	WRITE TO US	warrd To UZ	_	021TE 10 US	_	_
n-Pentane	warre to uz	WRITE TO UZ	WESTE TO US	WRITE TO US	warre To uz	_	WESTE TO US	_	warrd To US
Perchloroethylene	WRITE TO US	_	WRITE TO US	esta so us	WRITE TO US	_	WRITE TO US		warre to us
Pyridine	WATTE TO US	_	waite to us	esta to us	warrd To Uz	_	waitt TO UZ	_	_

	Glass	Poly- carbonate	Poly- propylene	PTFE	Stain- less-steel	EPDM O-Ring	PTFE O-Ring	Silicone O-Ring	Fluoro- elastomer O-Ring
Solvents									
Tetrahydrofuran	#51E 70 US	-	wist E TO US	warre To US	wiste To us	_	estic to us	-	-
Toluene	#51E 70 US	-	este To us	warre To US	wistE TO US	-	#8110 TO US	-	esto to us
Trichloroethane	# 811 70 US	-	?	WRITE TO US	#811B 70 US	-	estra To us	-	#6110 TO US
Trichloroethylene	#55TE 70 US	-	-	warre To US	wishing To us	-	MESTE TO US	-	esto to us
Xylene	1511: 70 WZ	-	wbitt foug	MRITE TO UZ	#511 70 V2	-	#5110 FO UZ	-	esste ro uz
Acids									
Acetic acid, 25%	#59TG #5 US	WRITE TO UZ	WEST OF TO U.S.	WRITE TO UZ	W51TG TO UZ	WRITE TO UZ	10 UZ	wante TO UZ	_
Acetic acid, 96%	#5010 70 UZ	_	esto to us	warre to us	esto to us	WRITE TO UZ	wishing to us	?	_
Hydrochloric acid, 25%	#59TG #5 US	WRITE TO UZ	WEST OF TO U.S.	WRITE TO UZ	-	WRITE TO UZ	10 UZ	-	1153TE TO UZ
Hydrochloric acid, 37%	warts 10 UZ	-	wants 10 us	WELLE TO US	_	WELLE TO RE	WESTE TO UZ	_	WRITE TO UZ
Hydrofluoric acid, 25%	-	-	warre To US	WRITE TO UZ	-	WRITE TO UZ	warre To Us	-	WRITE TO US
Hydrofluoric acid, 50%	-	-	warre To US	WRITE FO UZ	-	WRITE TO UZ	warre To Us	-	WRITE TO US
Perchloric acid, 25%	warts to us	WRITE TO UZ	warre To US	WRITE FO UZ	-	WRITE TO UZ	warre To us	-	WRITE TO US
Phosphoric acid, 25%	warts to us	WESTE TO US	warre To US	WEST D TO UZ	warre to us	estt foug	warre To Us	-	WRITE TO US
Phosphoric acid, 85%	warre to US	WRITE TO US	warre to us	WRITE TO US	warre to us	esita To us	warre rous	-	warre ro us
Nitric acid, 25%	warre to US	-	warre to us	esite fous	-	esita To us	warre To us	-	warre to us
Nitric acid, 65%	WRITE TO US	-	-	WRITE TO US	-	-	WRITE TO US	-	ARITE TO US
Sulfuric acid, 25%	ARITE TO US	MRITE TO US	WRITE TO US	WRITE TO US	WEITE TO US	ASITE TO US	WRITE TO US	-	ARITE TO US
Sulfuric acid, 98%	WRITE TO US	-	-	esite to us	_	-	WRITE TO US	-	ASITE TO US
Trichloroacetic acid, 25%	WRITE TO UZ	ABTO TO UZ	WRITE TO US	missite TO us	-	#1911 TO UZ	WRITE SU OZ	-	-
Bases									
Ammonium, 1N	WRITE TO UZ	-	WRITE TO UZ	warte To us	WRITE TO UZ	warre TO US	WRITE TO UZ	_	_
Ammonium hydroxide, 25%	MRITE TO US	-	WRITE TO UZ	WRITE TO US	wants to U2	warte to us	WRITE TO US	WRITE TO US	_
Potassium hydroxide, 32%	WRITE TO US	-	WRITE TO UZ	WRITE TO US	WOITE TO UZ	WRITE TO US	WRITE TO US	WRITE TO US	WRITE TO US
Sodium hydroxide, 32%	WRITE TO US	-	weint to uz	warte To us	WHITE TO UZ	WRITE TO US	WRITE TO US	to us	ARITE TO UZ
Sodium hydroxide, 1N	701E 701Z	-	#5116 FO UZ	worth TO US	#8116 TO 1/2	watte TO UZ	#50TG FO UZ	warre ro uz	a6116 10 92
Aqueous Solutions									
Formaline, 30%	18311	warre to us	15511 10 UZ	WRITE TO US	#15111 10 UZ	18 US	BBIT TO US	waite to us	ESTE FO UZ
Hydrogen peroxide, 35%	MRITE TO US	warre To US	MSTE TO US	warte To us	WESTE TO US	WRITE TO US	WRITE TO US	to us	WRITE TO US
Sodium hypochlorite, 5%	1511 20 UZ	ward to U2	#5911 TO U2	warte To US	m55111 70 US	wante to us	aBITE TO US	WEITE TO US	wisite to up

Key to Symbols

■ - Compatible ■ - Limited compatibility

- = Not compatible ? = Not tested

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 wish to filter by performing a trial filtration run before you begin with actual filtration.

Germany

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⊕ For further information, visit

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