Whatman Uniflo Syringe Filters

Consistent performance. Maximum value.



cytiva

Now extended to include 13 mm, 25 mm and 30 mm syringe filters

Whatman™ Uniflo™ Syringe Filters are disposable filters designed to provide clean filtrate from small volumes up to 100 mL. They are available in a variety of membrane choices with a polypropylene overmold housing. Whatman Uniflo syringe filters are available with:

- 13 mm, 25 mm or 30 mm diameters.
- 0.2 µm or 0.45 µm pore sizes
- Sterile or non-sterile options
- Laser etched printing on the filter for easy identification

Filter media	Typical application
Nylon	Aqueous and/or organic samples; hydrophilic
PES	Aqueous samples
PTFE	Organic based samples, hydrophobic membrane
PVDF	Aqueous and/or organic based samples; low protein binding membrane
H-PTFE	Hydrophilic aqueous and/or aggressive organic solvents; hydrophilic, low protein binding



Nylon membrane

Nylon membrane is hydrophilic and is a good choice for aqueous and/or aqueous-organic samples. The membrane offers good chemical resistance to most common HPLC solvents, however it has limited resistance to acids, bases, halogenated hydrocarbons, aldehydes and strong oxidising agents. The most common application is HPLC sample filtration.

Polyethersulfone (PES) membrane

Polyethersulfone membrane provides durability, high temperature resistance, good chemical compatibility and low protein absorption. It is particularly suitable for filtration of serum, plasma and tissue culture solutions as well as other protein containing solutions where minimal adsorptive protein loss is desired.

Polytetrafluoroethylene (PTFE) membrane

Polytetrafluoroethylene membrane is hydrophobic and will not allow water to pass without high pressures. Aqueous solutions may be filtered if the membrane is initially “wetted” with alcohol or another appropriate solvent. Polytetrafluoroethylene membrane will stop aqueous aerosols in gas streams.

Polyvinylidene difluoride (PVDF) membrane

Polyvinylidene fluoride membrane is a suitable choice for most HPLC sample preparation applications. The membrane is hydrophilic with low water breakthrough values. It offers good chemical resistance to all common HPLC solvents.

Hydrophilic polytetraflourethlene (H-PTFE) membrane

Hydrophilic PTFE membrane can be used for both aqueous and aggressive organic solvents. This membrane is suitable for uHPLC/HPLC sample preparation as well as many other applications in a busy, high volume lab as its dual capability handles most solvents.

Integrity test data

Description	Pore size microns (µm)	Minimum bubble point (psi)
Nylon	0.2	29.0
Nylon	0.45	20.0
Polyethersulfone (PES)	0.2	40.0
Polyethersulfone (PES)	0.45	33.0
Polytetrafluoroethylene (PTFE)*	0.2	10.0
Polytetrafluoroethylene (PTFE)*	0.45	6.0
Polyvinylidene diofluoride (PVDF)	0.2	39.0
Polyvinylidene diofluoride (PVDF)	0.45	17.5

** Bubble point determined with 95% IPA (v/v). All others determined with water.*



Technical data

Whatman Uniflo 13 mm syringe filters

Dimensions:	19.6 mm × 16.9 mm
Filtration area:	0.88 cm²
Maximum operating pressure:	67.5 psi
Housing:	Polypropylene
Volume "hold-up":	≤ 50 µL after air purge
Flow direction:	Flow should enter from inlet
Connectors:	Inlet: female luer lock (FLL) Outlet: male luer lock (ML)
Sterilization:*	Autoclave at 121°C at 15 psi for 20 minutes
Biosafe:	Polymer grade and membrane types meet the USP test requirements (for class VI plastics)
Filter media:	See chart on last page

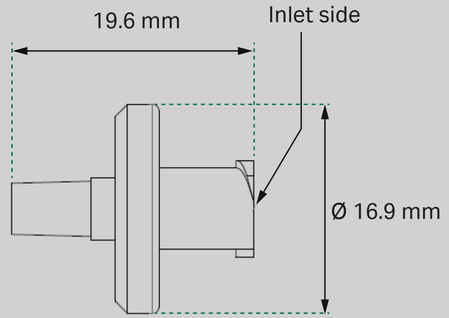
Whatman Uniflo 25 mm syringe filters

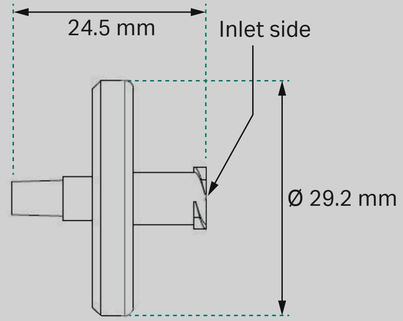
Dimensions:	24.5 mm × 29.2 mm
Filtration area:	3.45 cm²
Maximum operating pressure:	67.5 psi
Housing:	Polypropylene
Volume "hold-up":	≤ 100 µL after air purge
Flow direction:	Flow should enter from inlet
Connectors:	Inlet: female luer lock (FLL) Outlet: male luer lock (ML)
Sterilization:*	Autoclave at 121°C at 15 psi for 20 minutes
Biosafe:	Polymer grade and membrane types meet the USP test requirements (for class VI plastics)
Filter media:	See chart on last page

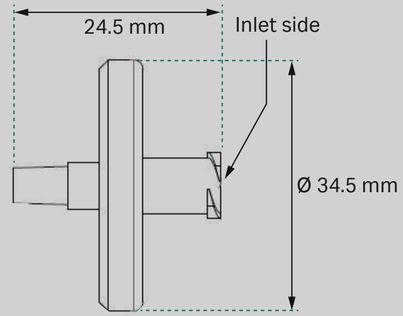
Whatman Uniflo 30mm w/GF prefilter syringe filter

Dimensions:	24.5 mm × 24.5 mm
Filtration area:	4.98 cm²
Maximum operating pressure:	67.5 psi
Housing:	Polypropylene
Volume "hold-up":	≤ 200 µL after air purge
Flow direction:	Flow should enter from inlet
Prefiltration Media:	100% borosilicate glass
Connectors:	Inlet: female luer lock (FLL) Outlet: male luer lock (ML)
Sterilization:*	Autoclave at 121°C at 15 psi for 20 minutes
Biosafe:	Polymer grade and membrane types meet the USP test requirements (for class VI plastics)
Filter media:	See chart on last page

** Non-sterile versions only*







Chemical compatibility of membranes and housings

Solvent	NYL	PES	PTFE†	PVDF	H-PTFE
Acetic acid, 5%	R	R	R	R	R
Acetic acid, glacial	LR	R	R	R	R
Acetone	R	NR	R	NR	R
Acetonitrile	R	NR	R	R	R
Ammonia, 6N	R	R	R	LR	NR
Amyl acetate	R	LR	R	LR	R
Amyl alcohol	R	NR	R	R	R
Benzene*	LR	R	R	R	R
Benzyl alcohol*	LR	NR	R	R	R
Boric acid	LR		R	R	
Butyl alcohol	R	R	R	R	R
Butyl chloride*	NR		R	R	
Carbon tetrachloride*	LR	NR	R	R	R
Chloroform*	NR	NR	R	R	R
Chlorobenzene*	NR	NR	R	R	
Citric acid	LR	R	R	R	
Cresol*	NR	NR	R	NR	
Cyclohexanone	NR	NR	R	R	
Cyclohexane*	NR	NR	R	R	R
Diethyl acetamide	R		R	NR	
Dimethyl formamide	R	NR	R	NR	R
Dioxane	R	LR	R	LR	
DMSO	R	NR	R	LR	R
Ethanol	R	R	R	R	
Ethers*	R	R	R	LR	R
Ethyl acetate	R	NR	R	NR	R
Ethylene glycol	R	R	R	R	R

Solvent	NYL	PES	PTFE†	PVDF	H-PTFE
Formaldehyde	R	R	R	R	R
Freon TF*	NR	R	R	R	TF
Formic acid	NR	R	R	R	
Hexane	R	R	R	R	R
Hydrochloric acid, conc*	NR	R	R	R	NR R
Hydrofluoric acid*	NR		R	R	
Isobutyl alcohol	R		R	R	R
Isopropyl alcohol	R		R	R	R
Methanol	R	R	R	R	R
Methyl ethyl ketone	R	NR	R	NR	R
Methylene chloride*	NR	NR	R	R	R
Nitric acid, conc*	NR	NR	R	R	R
Nitric acid, 6N*	NR	LR	R	R	NR
Nitrobenzene*	LR	NR	R	R	
Pentane*	R	R	R	R	
Perchloro ethylene*	LR	NR	R	R	R
Phenol 0.5%	NR	NR	R	R	
Pyridine	LR	NR	R	NR	R
Sodium hydroxide, 6N	LR	R	R	NR	R
Sulfuric acid, conc*	NR	NR	R	NR	R
Tetrahydrofuran*	R	NR	R	R	R
Toluene*	LR	NR	R	R	R
Trichloroethane*	LR	NR	R	R	R
Trichloroethylene*	NR	NR	R	R	R
Water	R	R	R	R	R
Xylene*	LR	LR	R	R	R

R = Resistant; LR = Limited resistance; NR = Not recommended

* *Short-term resistance of housing.*
The above data is to be used as a guide only. Testing prior to application is recommended.

† *Membrane may need pre-wetting with isopropanol/methanol if filtering a polar liquid.*

Ordering information

Diameter (mm)	Sterility	Pore size (µm)	Membrane	Catalog number	Quantity/pack
13	Nonsterile	0.2	PVDF	9909-1302	500
13	Nonsterile	0.45	PVDF	9909-1304	500
13	Nonsterile	0.2	Nylon	9910-1302	500
13	Nonsterile	0.45	Nylon	9910-1304	500
13	Nonsterile	0.2	PTFE	9911-1302	500
13	Nonsterile	0.45	PTFE	9911-1304	500
13	Nonsterile	0.2	H-PTFE	9920-1302	100
13	Nonsterile	0.2	H-PTFE	9921-1302	500
13	Nonsterile	0.45	H-PTFE	9920-1304	100
13	Nonsterile	0.45	H-PTFE	9921-1304	500
13	Nonsterile	0.2	PES	9912-1302	500
13	Nonsterile	0.45	PES	9912-1304	500
25	Nonsterile	0.2	PVDF	9909-2502	500
25	Nonsterile	0.45	PVDF	9917-2504	100
25	Nonsterile	0.45	PVDF	9909-2504	500
25	Nonsterile	0.2	Nylon	9910-2502	500
25	Nonsterile	0.45	Nylon	9918-2504	100
25	Nonsterile	0.45	Nylon	9910-2504	500
25	Nonsterile	0.2	PTFE	9911-2502	500
25	Nonsterile	0.45	PTFE	9911-2504	500
25	Nonsterile	0.2	H-PTFE	9920-2502	100
25	Nonsterile	0.2	H-PTFE	9921-2502	500
25	Nonsterile	0.45	H-PTFE	9920-2504	100
25	Nonsterile	0.45	H-PTFE	9921-2504	500
25	Nonsterile	0.2	PES	9912-2502	500
25	Nonsterile	0.45	PES	9912-2504	500
13	Sterile	0.2	PES	9916-1302	100
13	Sterile	0.45	PES	9916-1304	100
25	Sterile	0.2	PVDF	9913-2502	45
25	Sterile	0.45	PVDF	9913-2504	45
25	Sterile	0.2	PES	9914-2502	45
25	Sterile	0.45	PES	9914-2504	45
25	Sterile	0.2	PES	9915-2502	200
25	Sterile	0.45	PES	9915-2504	200

Diameter (mm)	Sterility	Pore size (µm)	Membrane	Catalog number	Quantity/pack
30 mm with GF prefilter	Non-sterile	0.2	PES	9923-3002	100
30 mm with GF prefilter	Non-sterile	0.45	PES	9923-3004	100
30 mm with GF prefilter	Non-sterile	0.2	PES	9924-3002	500
30 mm with GF prefilter	Non-sterile	0.45	PES	9924-3004	500
30 mm with GF prefilter	Non-sterile	0.2	PVDF	9925-3002	100
30 mm with GF prefilter	Non-sterile	0.45	PVDF	9925-3004	100
30 mm with GF prefilter	Non-sterile	0.2	PVDF	9926-3002	500
30 mm with GF prefilter	Non-sterile	0.45	PVDF	9926-3004	500
30 mm with GF prefilter	Non-sterile	0.2	PTFE	9927-3002	100
30 mm with GF prefilter	Non-sterile	0.45	PTFE	9927-3004	100
30 mm with GF prefilter	Non-sterile	0.2	PTFE	9928-3002	500
30 mm with GF prefilter	Non-sterile	0.45	PTFE	9928-3004	500
30 mm with GF prefilter	Non-sterile	0.2	Nylon	9929-3002	100
30 mm with GF prefilter	Non-sterile	0.45	Nylon	9929-3004	100
30 mm with GF prefilter	Non-sterile	0.2	Nylon	9930-3002	500
30 mm with GF prefilter	Non-sterile	0.45	Nylon	9930-3004	500
30 mm with GF prefilter	Non-sterile	0.2	H-PTFE	9931-3002	100
30 mm with GF prefilter	Non-sterile	0.45	H-PTFE	9931-3004	100
30 mm with GF prefilter	Non-sterile	0.2	H-PTFE	9932-3002	500
30 mm with GF prefilter	Non-sterile	0.45	H-PTFE	9932-3004	500

PTFE—Polytetrafluoroethylene
PVDF—Polyvinylidene difluoride
PES—Polyethersulfone
H-PTFE – Hydrphilic polytetrafluoroethylene

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