

High performance syringe filters

Whatman Puradisc syringe filters

Whatman Puradisc syringe filters combine premium quality with high performance. They are used for the quick, efficient filtration of samples up to 100 mL volume.

Whatman Puradisc filters are produced from pigment-free polypropylene or polycarbonate with standard inlet (female Luer lock) and outlet (male Luer) connections (unless otherwise stated). Options include a sterile, medical-grade blister pack for critical applications and a special tube tip outlet that allows the sample to be accurately dispensed into a micro-vial, removing air lock.

Features and benefits

- Pigment-free polypropylene (polycarbonate for Whatman Puradisc 30 mm and Whatman Puradisc Aqua)
- Standard inlet and outlet Luer connectors
- Optional sterile, medical-grade blister pack
- Tube-tip format (optional) for accurate dispensing into a micro-vial
- Choice of membrane or glass microfiber filter media
- Choice of filter sizes (4, 13, 25 or 30 mm) to minimize sample loss
- Sterile* option for critical applications
- Wide range of membranes to suit different sample types

Whatman Puradisc 4

Features

- 4 mm diameter syringe filter
- Sample volume up to 2 mL
- Low hold-up volume < 10 µL ensures maximum sample recovery
- Tube-tip format (optional)

Applications

- High performance liquid chromatography (HPLC) samples containing low solid content: filtration will improve column life.
- Capillary electrophoresis (CE) samples: filtration will remove spurious peaks.
- Sterile* filtration of low volume samples.
- UV/Vis samples: filter directly into cuvette using tube tip.
- Refractometry: filter samples to prevent damage to instrument optics and improve accuracy of results.
- Minimizes nonspecific binding to membrane (due to small membrane size).

* Refers to sterilization by filtration for small sample use which is an industry term for filters of pore size 0.2 µm or smaller as referenced in guidance such as EPA Guidance for Industry Sterile Drug Products Produced by Aseptic Processing — Current Good Manufacturing Practice Section IX, Part B (September 2004).

Whatman Puradisc 13

Features

- 13 mm diameter syringe filter
- Sample volume up to 10 mL
- Low hold-up volume < 25 µL ensures maximum sample recovery
- Glass microfiber option available
- Tube-tip format (optional)

Applications

- Biological sample preparation
- HPLC sample preparation



Puradisc 13 syringe filters with tube tip

Whatman Puradisc 25

Features

- 25 mm diameter syringe filter
- Sample volume up to 100 mL
- Low hold-up volumes for maximum sample recovery
- Glass microfiber option available

Applications

- HPLC aqueous sample preparation
- Biological sample preparation
- Buffer solutions
- Salt solutions
- Tissue culture media
- Irrigation solutions
- Sterile* isolation



Whatman Puradisc 25 syringe filters

Whatman Puradisc 30

Features

- 30 mm diameter
- Larger filtration area (44% greater in comparison with 25 mm)
- Designed for aqueous and non-aqueous samples



Whatman Puradisc 30 syringe filters

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Technical specifications

Whatman Puradisc syringe filters

	Puradisc 4	Puradisc 13	Puradisc 25	Puradisc 30
Housing	Polypropylene	Polypropylene	Polypropylene	Polycarbonate/Polypropylene
Filtration area	0.2 cm ²	1.3 cm ²	4.2 cm ²	5.7 cm ²
Maximum pressure	75 psi (5,2 bar)	75 psi (5,2 bar)	75 psi (5,2 bar)	100 psi (6,9 bar)
Volume hold-up full housing with air purge	< 10 µL	< 25 µL	< 100 µL	< 50 µL
Dimensions	10,1 × 23,5 mm	16,3 × 19,8 mm	22,9 × 28,4 mm	26 × 34 mm
Weight	0,55 g	0,95 g	2,7 g	4,7 g
Volume throughput	Up to 2 mL	Up to 10 mL	Up to 100 mL	Up to 100 mL
Inlet connection	Female Luer lock	Female Luer lock	Female Luer lock	Female Luer lock
Outlet connection	Male Luer	Male Luer	Male Luer	Male Luer
Sterilization	Autoclave at 121°C (131°C max)	Autoclave at 121°C (131°C max)	Autoclave at 121°C (131°C max)	Autoclave at 121°C (131°C max)

Ordering information

Whatman Puradisc 4 mm syringe filters

Pore size (µm)	Catalog number			Quantity/pack
	Nylon	PVDF	PTFE	
Nonsterile with tube tip				
0.2	–	6777-0402	–	50
0.45	–	6777-0404	–	50
Sterile without tube tip				
0.2	6786-0402	6791-0402	–	50
Nonsterile without tube tip				
0.2	6789-0402	6779-0402	6784-0402	100
0.2	6790-0402	6792-0402	6783-0402	500
0.45	6789-0404	6779-0404	6784-0404	100
0.45	6790-0404	6792-0404	6783-0404	500

PTFE—Polytetrafluoroethylene

PVDF—Polyvinylidene difluoride

Ordering information

Whatman Puradisc 13 mm syringe filters (nonsterile)

Pore size (µm)	Catalog Number									Quantity/pack
	CA	Nylon	PES	PVDF	PP	PTFE	GMF	RC	H-PTFE	
With tube tip										
0.2	-	-	-	6777-1302	-	6775-1302	-	-	-	50
0.2	-	-	-	-	-	10463703	-	-	-	100
0.45	-	-	-	6777-1304	-	6775-1304	-	-	-	50
0.45	-	-	-	-	-	10463713	-	-	-	100
Without tube tip										
0.1	-	6789-1301	-	-	-	6784-1301	-	-	-	100
0.2	-	6789-1302	6782-1302	6779-1302	6788-1302	6784-1302	-	6756-1302	6772-1302	100
0.2	-	6790-1302	-	6792-1302	6785-1302	6783-1302	-	6757-1302	6773-1302	500
0.2	-	6768-1302	-	6765-1302	-	6766-1302	-	6758-1302	6774-1302	2000
0.45	6771-1304	6789-1304	6782-1304	6779-1304	6788-1304	6784-1304	-	6756-1304	6772-1304	100
0.45	-	6790-1304	6781-1304	6792-1304	6785-1304	6783-1304	6818-1304	6757-1304	6773-1304	500
0.45	-	6768-1304	-	6765-1304	-	6766-1304	-	6758-1304	6774-1304	2000
1.0	-	-	-	-	-	6784-1310	-	-	-	100
5.0	-	-	-	-	-	6784-1350	-	-	-	100
GF/F 0.7*	-	-	-	-	-	-	6825-1307	-	-	100
GF/B 1.0*	-	-	-	-	-	-	6821-1310	-	-	100
GF/C 1.2*	-	-	-	-	-	-	6822-1312	-	-	100
GF/A 1.6*	-	-	-	-	-	-	6820-1316	-	-	100
GF/A 1.6	-	-	-	-	-	-	6806-1316	-	-	500
GF/D 2.7*	-	-	-	-	-	-	6823-1327	-	-	100
934-AH 1.5*	-	-	-	-	-	-	6827-1315	-	-	100

* Particle retention rating

CA—Cellulose acetate

GMF—Glass microfiber

PES—Polyethersulfone

PP—Polypropylene

PTFE—Polytetrafluoroethylene

PVDF—Polyvinylidene difluoride

RC—Regenerated cellulose

H-PTFE—Hydrophilic PTFE

Ordering information

Whatman Puradisc 13 mm syringe filters (sterile)

Pore size (µm)	Catalog number			Quantity/pack
	PVDF	PES	RC	
Without tube tip				
0.2	6791-1302	6780-1302	10462940	50
0.45	6791-1304	6780-1304	–	50
With tube tip				
0.2	6778-1302	–	10462945	50

PES—Polyethersulfone

PVDF—Polyvinylidene difluoride

RC—Regenerated cellulose



Ordering information

Whatman Puradisc 25 mm syringe filters

Pore size (µm)	Catalog Number									Quantity/pack
	Nylon	PES	PVDF	PP	PTFE	H-PTFE	GMF	DpPP	RC	
Sterile										
0.2	–	6780-2502	–	–	–	–	–	–	–	50
0.2	–	6794-2512	–	–	–	–	–	–	–	1000
0.45	–	6780-2504	–	–	–	–	–	–	–	50
0.45	–	6794-2514	–	–	–	–	–	–	–	1000
1.0	–	6780-2510	–	–	–	–	–	–	–	50
Nonsterile										
0.1	–	–	–	–	6784-2501	–	–	–	–	50
0.1	–	–	–	–	6798-2501	–	–	–	–	1000
0.2	6750-2502	–	6746-2502	6786-2502	6784-2502	6772-2502	–	–	6756-2502	50
0.2	6751-2502	6781-2502	6747-2502	6788-2502	6785-2502	6773-2502	–	–	6757-2502	200
0.2	6753-2502	6794-2502	–	6790-2502	6798-2502	6774-2502	–	–	6758-2502	1000
0.45	6750-2504	–	6746-2504	–	6784-2504	6772-2504	–	6786-2504	6756-2504	50
0.45	6751-2504	6781-2504	6747-2504	–	6785-2504	6773-2504	–	6788-2504	6757-2504	200
0.45	6752-2504	–	–	–	–	–	–	–	–	500
0.45	6753-2504	6794-2504	6749-2504	–	6798-2504	6774-2504	–	6790-2504	6758-2504	1000
0.7 GF/F*	–	–	–	–	–	–	6825-2517	–	–	50
0.7 GF/F*	–	–	–	–	–	–	6825-2527	–	–	200
0.7 GF/F*	–	–	–	–	–	–	6787-2520	–	–	1000
1.0	6750-2510	–	–	–	6784-2510	–	–	–	–	50
1.0	6751-2510	6781-2510	–	–	–	–	–	–	–	200
1.0	6753-2510	6794-2510	–	–	6798-2510	–	–	–	–	1000
1.0 GD 1*	–	–	–	–	–	–	6783-2510	–	–	100
1.0 GD 1*	–	–	–	–	–	–	6792-2510	–	–	1000
2.0 GD 2*	–	–	–	–	–	–	6783-2520	–	–	100

* Particle retention rating

DpPP—Polypropylene depth filter

GD—Graded density

GMF—Glass microfiber

H-PTFE = Hydrophilic PTFE

PES—Polyethersulfone

PP—Polypropylene

PTFE—Polytetrafluoroethylene

PVDF—Polyvinylidene difluoride

RC = Regenerated cellulose

Ordering information

Whatman Puradisc 30 mm syringe filters

Media/housing	Catalog number				Connection in/out	Quantity/pack
	CA / PC	CN / PC	PTFE / PP	RC/PP		
Pore size (µm)						
0.2	10462200*	–	10463500*	–	FLL/ML	50
0.2	10462701	–	–	10462960*	FLL/ML	50
0.2	10462710	–	10463503	–	FLL/ML	100
0.2	10462700	–	10463505	–	FLL/ML	500
0.45	10462100*	–	–	10462950*	FLL/ML	50
0.45	10462601	–	–	–	FLL/ML	50
0.45	10462610	–	10463513	–	FLL/ML	100
0.45	10462600	–	10463515	–	FLL/ML	500
0.8	10462241	–	–	–	FLL/ML	50
0.8	10462240*	–	–	–	FLL/ML	50
0.8	10462243	–	–	–	FLL/ML	500
1.0	–	–	10463523	–	FLL/ML	100
1.0	–	–	10463525	–	FLL/ML	500
1.2	10462260*	–	–	–	FLL/ML	50
1.2	10462261	–	–	–	FLL/ML	50
1.2	10462263	–	–	–	FLL/ML	500
5.0	–	10462000*	–	–	FLL/ML	50
5.0	–	10462520	–	–	FLL/ML	50
5.0	–	10462510	10463533	–	FLL/ML	100
5.0	–	10462500	10463535	–	FLL/ML	500

* Sterile

CA—Cellulose acetate
 CN—Cellulose nitrate
 FLL—Female Luer lock
 ML—Male Luer
 MLL—Male Luer lock
 PC—Polycarbonate
 PP—Polypropylene
 RC—Regenerated cellulose



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