

Filtration for HPLC Sample Preparation

Accurate. Reliable. Fast.



Distributor
GE Healthcare



Simplify sample preparation with the Whatman™ regenerated cellulose membrane portfolio from GE Healthcare

- Reduce cost with well-designed devices – the regenerated cellulose (RC) family includes products for robotic sample handing, outside-of-lab sample preparation, certified method development, and working with hard-to-filter samples.
- Increase accuracy with reliable, repeatable results – The RC family is demonstrated to have extremely low levels of chemical extractables that could interfere with analysis. Products are available to retain a variety of particle sizes.
- Save time with multifunctional products – reduce time spent deciding which membrane type to use for your sample preparation. The RC membrane is broadly compatible with common HPLC sample solvents and mobile phases.
- Improve efficiency with ready-to-use products – RC products are supplied ready for use. The hydrophilic, low-protein binding RC membrane is suitable for a wide variety of HPLC applications.

Characteristics of common membranes

Membrane ¹	Solvent compatibility		Qualities	
	Aqueous	Nonaqueous	Low protein binding	Low extractables
RC	+++	+++	+++	+++
CA	+++	-	+++	+
ME	+++	+	+	-
CN	+++	-	-	-
PVDF	+++	+++	+++	+
PP	+++	+++	-	-
NYL	+++	+	-	-
PES	+++	+	+++	+++
PTFE	-	+++	-	+
Anopore™	+++	+	+++	+++
PC	+++	+	+++	+++

¹ RC = regenerated cellulose; CA = cellulose acetate; ME = mixed ester; CN = cellulose nitrate; PVDF = polyvinylidene fluoride; PP = polypropylene; NYL = nylon; PES = polyethersulfone; PTFE = Polytetrafluoroethylene; PC = polycarbonate.

+++ strong characteristic
 + weak characteristic
 - does not have characteristic

The regenerated cellulose family



RC membrane

Degas and purify your mobile phase

Mobile phase filtration p. 4



Puradisc

Everyday use*

Preventive care p. 5



SPARTAN™

Every lot HPLC-tested to ensure low extractables

Method development p. 9



Whatman GD/X™

Processes more sample with less back pressure*

Syrups, sludges, and thick samples p. 10



Mini-UniPrep™

Designed for autosamplers and out-of-lab sample prep*

Automated processing p. 13

* Also available in PTFE, PVDF, PES, nylon, and polypropylene

Mobile phase filtration

Whatman RC55 and GV 050/2 vacuum filtration unit for solvent filtration

Use the same material for mobile phase filtration and sample filtration to:

- Reduce variation of analysis
- Reduce rate of column clogging
- Enhance lifetime of column

If inline degassing is required, consider the Whatman In-line filter/de-gasser. Choose from two membrane options:

- Nylon – when mobile phase is > 20% aqueous
- Polypropylene – for non-aqueous solvents



Ordering information

Description	Quantity/pack	Product code
Regenerated Cellulose circles (RC55), 0.45 µm, 47 mm	100	10410212
Regenerated Cellulose circles (RC55), 0.45 µm, 50 mm	100	10410214
GV 050/2, glass frit filter, hose coupling connection, Erlenmeyer flask 1000 ml (NS45)	1	10442200
Whatman In-line filter/degasser, polypropylene (0.8 mm - 0.4 mm tubing)	1	6725-5002
Whatman In-line filter/degasser, polypropylene (1/8" tubing)	1	6725-5002A
Whatman In-line filter/degasser, nylon (0.8 mm - 0.4 mm tubing)	1	6726-5002
Whatman In-line filter/degasser, nylon (1/8" tubing)	1	6726-5002A



Preventive care: Puradisc filters

Filtration of your samples is important as a preventive maintenance step for HPLC or UHPLC analysis. Keep unwanted particulate matter from entering the injector to increase column life, shorten run time, and optimize peak shape.

- Manufactured to a high standard in GE's ISO 9001:2008 certified facilities
- RC available in 13 mm and 25 mm diameters; hold-up volume < 25 µL for 13 mm and < 100 µL for 25 mm
- Available in non-RC membrane types to support a variety of other applications



Typical data Puradisc Syringe Filters

	4 mm diameter*	13 mm diameter†	25 mm diameter‡	30 mm diameter*
Housing	Polypropylene	Polypropylene	Polypropylene	Polycarbonate
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' with air purge	< 10 µl	< 25 µl	< 100 µl	< 50 µl
Dimensions	10.1 × 23.5 mm 19.5 × 7.7 mm (PVDF membrane only)	16.3 × 19.8 mm	22.9 × 28.4 mm	26 × 34 mm
Weight (approx)	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/tube tip	Male Luer/tube tip	Male Luer	Male Luer/Luer lock
Sterilization§	Autoclave at 121°C	Autoclave at 121°C	Autoclave at 121°C	Autoclaving not recommended

* Diameters available for Puradisc only.

† Data the same for Puradisc and Uniflo, except: Uniflo filtration area = 0.65 cm²; Max pressure = 67.5 psi (4.7 bar); Volume hold up is < 50 µl; dimensions = 19.6 × 16.9 mm

‡ Data the same for Puradisc and Uniflo, except: Uniflo filtration area = 4.9 cm²; Max pressure = 67.5 psi (4.7 bar); dimensions = 24.5 × 29.2 mm

§ Applies to nonsterile filters only. Do not autoclave sterile filters



4 mm Puradisc Syringe Filters

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



13 mm Puradisc Syringe Filters (nonsterile)

Membrane*	Without tube tip							With tube tip		Quantity/pack
	Nylon	PVDF	PTFE	PES	PP	GMF	CA	PVDF	PTFE	
Pore size (µm)										
0.2	—	—	—	—	—	—	—	6777-1302	6775-1302	50
0.45	—	—	—	—	—	—	—	6777-1304	6775-1304	50
0.1	6789-1301	—	6784-1301	—	—	—	—	—	—	100
0.2	6789-1302	6779-1302	6784-1302	6782-1302	6788-1302	—	—	—	—	100
0.45	6789-1304	6779-1304	6784-1304	6782-1304	6788-1304	—	6771-1304	—	—	100
1.0	—	—	6784-1310	—	—	—	—	—	—	100
5.0	—	—	6784-1350	—	—	—	—	—	—	100
GF/A 1.6 [†]	—	—	—	—	—	6820-1316	—	—	—	100
GF/B 1.0 [†]	—	—	—	—	—	6821-1310	—	—	—	100
GF/C 1.2 [†]	—	—	—	—	—	6822-1312	—	—	—	100
GF/D 2.7 [†]	—	—	—	—	—	6823-1327	—	—	—	100
GF/F 0.7 [†]	—	—	—	—	—	6825-1307	—	—	—	100
934-AH 1.5 [†]	—	—	—	—	—	6827-1315	—	—	—	100
0.2	6790-1302	6792-1302	6783-1302	—	6785-1302	—	—	—	—	500
0.45	6790-1304	6792-1304	6783-1304	6781-1304	6785-1304	6818-1304	—	—	—	500
GF/A 1.6 [†]	—	—	—	—	—	6806-1316	—	—	—	500
0.2	6768-1302	6765-1302	6766-1302	—	—	—	—	—	—	2000
0.45	6768-1304	6765-1304	6766-1304	—	—	—	6763-1304	—	—	2000

* CA = Cellulose acetate; GMF = Glass microfiber filter; PES = Polyethersulfone; PP = Polypropylene; PTFE = Polytetrafluoroethylene; PVDF = Polyvinylidene difluoride

[†] Particle Retention Rating



13 mm Puradisc Syringe Filters (sterile)

Membrane*	Without tube tip			With tube tip	
	Nylon	PVDF	PES	PVDF	Quantity/pack
Pore size (µm)					
0.1	6786-1301	—	—	—	50
0.2	6786-1302	6791-1302	6780-1302	6778-1302	50
0.45	—	6791-1304	6780-1304	—	50

* PES = Polyethersulfone; PVDF = Polyvinylidene difluoride



25 mm Puradisc Syringe Filters

Membrane*	Nonsterile					Sterile		Quantity/pack
	Nylon	PVDF	PTFE	PP	PES	GMF	PES	
Pore size (µm)								
0.1	—	—	6784-2501	—	—	—	—	50
0.2	6750-2502	6746-2502	6784-2502	6786-2502	—	—	6780-2502	50
0.45	6750-2504	6746-2504	6784-2504	6786-2504 [‡]	—	—	6780-2504	50
1.0	6750-2510	—	6784-2510	—	—	—	6780-2510	50
0.7 (GF/F) [†]	—	—	—	—	—	6825-2517	—	50
1.0 (GD 1) [†]	—	—	—	—	—	6783-2510	—	100
2.0 (GD 2) [†]	—	—	—	—	—	6783-2520	—	100
0.2	6751-2502	6747-2502	6785-2502	6788-2502	6781-2502	—	—	200
0.45	6751-2504	6747-2504	6785-2504	6788-2504 [‡]	6781-2504	—	—	200
1.0	6751-2510	—	—	—	6781-2510	—	—	200
0.7 (GF/F) [†]	—	—	—	—	—	6825-2527	—	200
0.2	—	—	—	—	—	—	—	300
0.45	6752-2504	—	—	—	—	—	—	500
0.1	—	—	6798-2501	—	—	—	—	1000
0.2	6753-2502	—	6798-2502	6790-2502	6794-2502	—	6794-2512	1000
0.45	6753-2504	6749-2504	6798-2504	6790-2504 [‡]	6794-2504	—	6794-2514	1000
0.7 (GF/F) [†]	—	—	—	—	—	6787-2520	—	1000
1.0	6753-2510	—	6798-2510	—	6794-2510	—	—	1000
1.0 (GD 1) [†]	—	—	—	—	—	6792-2510	—	1000

* GD = Graded Density; PES = Polyethersulfone; PP = Polypropylene; PTFE = Polytetrafluoroethylene; PVDF = Polyvinylidene difluoride

[†] Particle Retention Rating

[‡] DpPP = Polypropylene Depth Filter



30 mm Puradisc FP Syringe Filters

Description	Diameter (mm)	Pore size (µm)	Membrane/housing*	Connection in/out*	Color code	Quantity/pack	Product code
Individually sterile packed							
FP 30 CA-S#	30	0.2	CA/PC	FLL/ML	red	50	10 462 200
FP 30 CA-S#	30	0.2	CA/PC	FLL/MLL	red	50	10 462 205
FP 30 CA-S#	30	0.45	CA/PC	FLL/ML	white	50	10 462 100
FP 30 CA-S#	30	0.8	CA/PC	FLL/ML	green	50	10 462 240
FP 30 CA-S#	30	1.2	CA/PC	FLL/ML	orange	50	10 462 260
FP 30 CN-S	30	5.0	CN/PC	FLL/ML	black	50	10 462 000
FP 30 RC#	30	0.45	RC	FLL/ML	—	50	10 462 950
FP 30 RC#	30	0.2	RC	FLL/ML	—	50	10 462 960
Nonsterile							
FP 30 CA#	30	0.2	CA/PC	FLL/ML	red	50	10 462 701
FP 30 CA#	30	0.2	CA/PC	FLL/ML	red	100	10 462 710
FP 30 CA#	30	0.2	CA/PC	FLL/ML	red	500	10 462 700
FP 30 CA#	30	0.2	CA/PC	FLL/MLL	red	500	10 462 206
FP 30 CA#	30	0.45	CA/PC	FLL/ML	white	50	10 462 601
FP 30 CA#	30	0.45	CA/PC	FLL/ML	white	100	10 462 610
FP 30 CA#	30	0.45	CA/PC	FLL/ML	white	500	10 462 600
FP 30 CA#	30	0.8	CA/PC	FLL/ML	green	50	10 462 241
FP 30 CA#	30	0.8	CA/PC	FLL/ML	green	500	10 462 243
FP 30 CA#	30	1.2	CA/PC	FLL/ML	orange	50	10 462 261
FP 30 CA#	30	1.2	CA/PC	FLL/ML	orange	500	10 462 263
FP 30 CN	30	5.0	CN/PC	FLL/ML	black	50	10 462 520
FP 30 CN	30	5.0	CN/PC	FLL/ML	black	100	10 462 510
FP 30 CN	30	5.0	CN/PC	FLL/ML	black	500	10 462 500
Aqua 30							
Aqua 30 CA#	30	0.45	CA/PC	FLL/ML	white	50	10 462 656
Aqua 30 CA#	30	0.45	CA/PC	FLL/ML	white	100	10 462 655
Aqua 30 CA#	30	0.45	CA/PC	FLL/ML	white	500	10 462 650

* CA = Cellulose acetate; CN = Cellulose nitrate; PC = Polycarbonate; FLL = Female Luer lock; ML = Male Luer; MLL = Male Luer lock

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Certified quality for method development: SPARTAN filters

SPARTAN brand syringe filters are HPLC-certified for confidence and consistent results. Tested and certified for the absence of UV-absorbing substances (210 and 254 nm) with water, methanol, acetonitrile to ensure absence of interfering substances.

- Hydrophilic, low protein-binding membrane made of regenerated cellulose
- Excellent chemical resistance against the standard aqueous and organic HPLC solvents
- Tested and certified for the absence of UV-absorbing substances at wavelengths of 210 and 254 nm with water, methanol, and acetonitrile
- 13 mm diameter with Mini-Tip options
- 13 mm diameter with extremely low dead volume < 10 µL



Ordering information



SPARTAN Syringe Filters

Product code	Diameter (mm)	Pore size (µm)	Membrane/housing*	Connection in/out*	Color code	Quantity/pack
10463040#	13	0.2	RC/PP	FLL/Mini-Tip	dark brown	100
10463042#	13	0.2	RC/PP	FLL/Mini-Tip	dark brown	500
10463100#	13	0.2	RC/PP	FLL/ML	dark brown	100
10463102#	13	0.2	RC/PP	FLL/ML	dark brown	500
10463030#	13	0.45	RC/PP	FLL/Mini-Tip	light brown	100
10463032#	13	0.45	RC/PP	FLL/Mini-Tip	light brown	500
10463110#	13	0.45	RC/PP	FLL/ML	light brown	100
10463112#	13	0.45	RC/PP	FLL/ML	light brown	500
10463060#	30	0.2	RC/PP	FLL/ML	dark brown	100
10463062#	30	0.2	RC/PP	FLL/ML	dark brown	500
10463053#	30	0.45	RC/PP	FLL/ML	light brown	50
10463050#	30	0.45	RC/PP	FLL/ML	light brown	100
10463052#	30	0.45	RC/PP	FLL/ML	light brown	500

* PP = Polypropylene; FLL = Female Luer lock; ML = Male Luer; RC = Regenerated cellulose

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High-particulate, challenging sample filtration: Whatman GD/X filters

Filter even the most difficult samples and use less hand pressure with GD/X syringe filters.

- Exceptional loading capacity and fast flow rates – prevents back pressure and clogging of membrane
- Graduated microfibrer prefilter from 1 µm to 0.7 µm
- Higher flow rates (3x) compared to unprotected membranes
- Uses glass microfiber-based prefilters



For metals testing and other applications where glass-based compounds could interfere with analysis, we offer a related syringe filter (GD/XP), which uses polypropylene prefilters.

Typical data

Whatman GD/X Syringe Filters

Membrane	GD/X 13 mm	GD/X 25 mm
Housing	Polypropylene (pigment-free)	Polypropylene (pigment-free)
Filtration area	1.3 cm ²	4.6 cm ²
Maximum pressure	100 psi (6.9 bar)	75 psi (5.2 bar)
Volume "hold-up" full housing with air purge	0.5 ml 50 µl (approx)	1.4 ml 250 µl (approx)
Dimensions	21.6 × 29.8 mm	20.8 × 29.8 mm
Weight	3 g (approx)	3 g (approx)
Flow direction	Flow should enter from the inlet	Flow should enter from the inlet
Inlet connection	Female Luer lock	Female Luer lock
Outlet connection	Male Luer	Male Luer
Sterilization*	Autoclave at 121°C at 15 psi for 20 min	Autoclave at 121°C at 15 psi for 20 min
Glass microfibrer prefiltration media	100% borosilicate GMF 150: 1 µm GF/F 0.7 µm	100% borosilicate GMF 150: 1 µm GF/F 0.7 µm

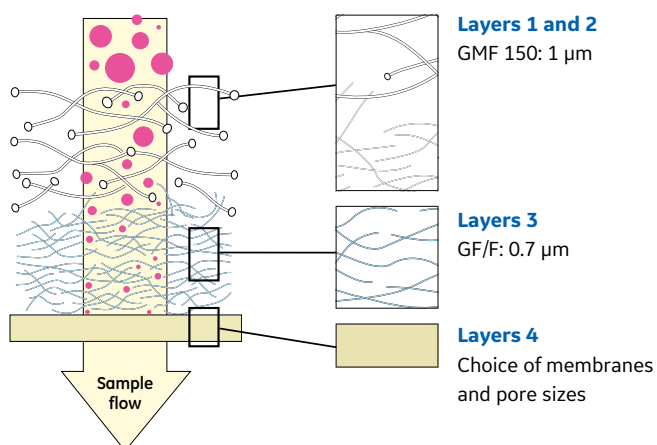
* Applies to nonsterile filters only. Do not autoclave sterile GD/X filters.

Typical data

GD/XP Syringe Filters

	GD/XP 25 mm
Housing	Polypropylene (pigment-free)
Filtration area	4.6 cm ²
Maximum pressure	75 psi (5.2 bar)
Volume 'hold-up' full housing	1.4 ml with air purge 250 µl (approx)
Dimensions	20.8 × 30.0 mm
Weight	3 g (approx)
Flow direction	Flow should enter from the inlet
Inlet connection	Female Luer lock
Outlet connection	Male Luer
Sterilization†	Autoclave at 121°C at 15 psi for 20 min
Prefiltration media	PP 20 µm; 5 µm

† Not recommended for nylon.



Whatman GD/X Syringe filters contain several filtration layers that substantially reduce blockage and increase volume throughput.

Ordering information



Whatman GD/X Syringe Filters

Membrane*	Pore size (µm)	Diameter (mm)	Nonsterile		Sterile	
			150/pack	1500/pack	50/pack	500/pack
Nylon high charge (positive)	0.2	25	6869-2502	-	-	-
	0.45	25	6869-2504	-	-	-
Nylon	0.2	13	6870-1302	6871-1302	-	-
	0.2	25	6870-2502	6871-2502	-	-
	0.45	13	6870-1304	6871-1304	-	-
	0.45	25	6870-2504	6871-2504	-	-
	5	25	6870-2550	6871-2550	-	-
PVDF	0.2	13	6872-1302	-	-	-
	0.2	25	6872-2502	6873-2502	6900-2502	-
	0.45	13	6872-1304	6873-1304	-	-
	0.45	25	6872-2504	6873-2504	6900-2504	-
PTFE	0.2	13	6874-1302	6875-1302	-	-
	0.2	25	6874-2502	6875-2502	-	-
	0.45	13	6874-1304	6875-1304	-	-
	0.45	25	6874-2504	6875-2504	-	-
PES	0.2	13	6876-1302	-	-	-
	0.2	25	6876-2502	6905-2502	6896-2502	6897-2502
	0.45	13	6876-1304	-	-	-
	0.45	25	6876-2504	6905-2504	6896-2504	6897-2504
PP	0.2	13	6878-1302	-	-	-
	0.2	25	6878-2502	-	-	-
RC	0.2	25	6887-2502	-	-	-
	0.45	25	6882-2504	6883-2504	-	-
CA	0.2	13	6880-1302	-	-	-
	0.2	25	6880-2502	-	6901-2502	-
	0.45	13	6880-1304	-	-	-
	0.45	25	6880-2504	-	6901-2504	-
GF/A [†]	1.6 [†]	13	6882-1316	-	-	-
	1.6 [†]	25	6882-2516	6883-2516	-	-
GF/B [†]	1 [†]	13	6884-1310	-	-	-
	1 [†]	25	6884-2510	-	-	-
GF/C [†]	1.2 [†]	13	6883-1312	-	-	-
	1.2 [†]	25	6886-2512	-	-	-
GF/D [†]	2.7 [†]	13	6888-1327	-	-	-
	2.7 [†]	25	6888-2527	-	-	-
GF/F [†]	0.7 [†]	13	6890-1307	-	-	-
	0.7 [†]	25	6890-2507	6891-2507	-	-
	0.45 [†]	13	6894-1304	-	-	-
934-AH [†]	1.5 [†]	25	6892-2515	-	-	-
GMF [†]	0.45 [†]	25	6894-2504	6895-2504	6902-2504	-

* PP = Polypropylene; CA = Cellulose acetate; PES = Polyethersulfone; GF = Glass fiber; PVDF = Polyvinylidene difluoride; GMF = Glass microfiber; PTFE = Polytetrafluoroethylene

[†] Glass microfiber particle retention rating

[†] Contains GMF 150 without the GF/F prefilter



GD/XP Syringe Filters

Product code	Membrane*	Pore size (μm)	Diameter (mm)	Hydrophilic	Solvent resistance	Quantity/pack
6970-2504	Nylon	0.45	25	Yes	Good	150
6971-2504	Nylon	0.45	25	Yes	Good	1500
6972-2504	PVDF	0.45	25	Yes	Good	150
6973-2504	PVDF	0.45	25	Yes	Good	1500
6974-2504	PTFE	0.45	25	No	Very good	150
6978-2504	PP	0.45	25	No	Good	150
6993-2504	DpPP	0.45	25	No	Good	1500
6992-2504	DpPP	0.45	25	No	Good	150
6994-2504	PES	0.45	25	Yes	Poor	150
6995-2504	PES	0.45	25	Yes	Poor	1500

* PP = Polypropylene; PES = Polyethersulfone; PVDF = Polyvinylidene difluoride; PTFE = Polytetrafluoroethylene; DpPP = Polypropylene depth filter



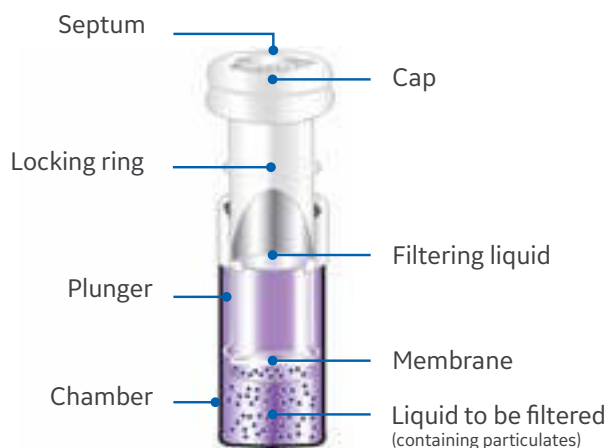
Autosampler and workflow support: Mini-UniPrep filters

Whatman Mini-UniPrep Syringeless Filters – polypropylene or glass chambers

The Mini-UniPrep syringeless filters are compatible with most autosamplers.

- Easy-to-use design supports sample preparation outside of the lab if needed
- Process samples in one-third the time of traditional syringe filtration
- Replaces syringe, syringe filter, vial, and cap in one consumable
- Polypropylene or glass chamber options to prevent interference from chemical leaching
- Amber vials available for light sensitive samples
- Multi-compressors available for ease of use
- 12 × 33 mm vial can be used to filter up to 400 µL

Parts of a Mini-UniPrep filter



Typical data

Mini-UniPrep and Mini-UniPrep G2 filter vials

	Mini-UniPrep	Mini-UniPrep G2
Dimensions	Equivalent in size to 12 mm × 32 mm vials	Equivalent in size to 12 × 32 mm vials
Materials of construction		
Chamber:	Polypropylene	Borosilicate glass
Plunger housing:	Polypropylene	Polypropylene
Plunger inner storage vial:	N/A	Borosilicate glass
Filter medium:	As specified	As specified
Septum:	Silicone with PTFE liner	Silicone with PTFE liner
Cap:	Polypropylene	Polypropylene
Maximum operating temp	50°C (122°F)	50°C (122°F)
Max. unfiltered sample capacity	400 µL	500 µL
Max. filtered sample capacity	350 µL	330 µL
Dead volume	50 µL	170 µL
Recommended minimum filtering volume	100 µL	220 µL placed in the chamber to obtain 50 µL in inner storage vial
Nominal force needed to compress	Approx. 8.2 kg (18 lbs)	Approx. 11.3 kg (25 lbs)
Autosampler needle height adjustment:	3 mm from the bottom of Mini-UniPrep	5 mm from the bottom of Mini-UniPrep G2
Autosampler compatibility	Any autosampler that accommodates standard 12 × 32 mm profile vials	Any autosampler that accommodates standard 12 × 32 mm profile vials

Ordering Information



Mini-UniPrep G2 filter vials with inner glass storage vial

Note: Adjust autosampler needle height to a minimum of 5 mm from the bottom of the Mini-UniPrep G2.

Membrane	Pore size (µm)	Housing	Cap	Product code 100/pack	Product code 1000/pack	Product code Starter pack (100/pack + Hand compressor)
RC*	0.2	Translucent	Normal	GN203NPERC	GN503NPERC	GN203NPERCSP
RC	0.45	Translucent	Normal	GN203NPURC	GN503NPURC	GN203NPURCSP
PTFE*	0.2	Translucent	Normal	GN203NPEORG	GN503NPEORG	GN203NPEORGSP
PTFE	0.2	Translucent	Slit septum	GS203NPEORG	GS503NPEORG	GS203NPEORGSP
PTFE	0.2	Amber	Normal	GN203APEORG	-	GN203APEORGSP
PTFE	0.45	Translucent	Normal	GN203NPUORG	GN503NPUORG	GN203NPUORGSP
PTFE	0.45	Translucent	Slit septum	GS203NPUORG	GS503NPUORG	GS203NPUORGSP
PVDF*	0.2	Translucent	Normal	GN203NPEAQU	GN503NPEAQU	GN203NPEAQU SP
PVDF	0.2	Translucent	Slit septum	GS203NPEAQU	GS503NPEAQU	GS203NPEAQU SP
PVDF	0.2	Amber	Normal	GN203APEAQU	-	GN203APEAQU SP
PVDF	0.45	Translucent	Normal	GN203NPUAQU	GN503NPUAQU	GN203NPUAQU SP
PVDF	0.45	Translucent	Slit septum	GS203NPUAQU	GS503NPUAQU	GS203NPUAQU SP
Nylon	0.2	Translucent	Normal	GN203NPENYL	GN503NPENYL	GN203NPENYLSP
Nylon	0.2	Translucent	Slit septum	GS203NPENYL	GS503NPENYL	GS203NPENYLSP
Polypropylene	0.2	Translucent	Normal	GN203NPEPP	GN503NPEPP	GN203NPEPPSP
Polypropylene	0.2	Translucent	Slit septum	GS203NPEPP	-	GS203NPEPPSP
Glass fiber	0.45	Translucent	Normal	GN203NPUGMF	GN503NPUGMF	GN203NPUGMFSP
Glass fiber	0.45	Translucent	Slit septum	GS203NPUGMF	-	GS203NPUGMFSP



Compressors

Description

Description	Product code
Mini-UniPrep G2 Hand Compressor 1/pack	MUPG2HCPWC1
Mini-UniPrep G2 Multi-Compressor 1/pack, comes with one tray	MUPG2MCPWC8
Mini-UniPrep G2 Multi-Compressor Tray 1/pack	MUPG2MCWT8

* PTFE = polytetrafluoroethylene; PVDF = polyvinylidene difluoride; RC = regenerated cellulose





Mini-UniPrep filter vial with polypropylene housing

Note: Adjust autosampler needle height to a minimum of 3 mm from the bottom of the Mini-UniPrep.

Membrane	Pore size (µm)	Housing	Cap	Product code 100/pack	Product code 1000/pack
PTFE*	0.2	Translucent	Standard	UN203NPEORG	UN503NPEORG
PTFE	0.2	Translucent	Slit septum	US203NPEORG	US503NPEORG
PTFE	0.2	Amber	Standard	UN203APEORG	-
PTFE	0.45	Translucent	Standard	UN203NPUORG	UN503NPUORG
PTFE	0.45	Translucent	Slit septum	US203NPUORG	US503NPUORG
PTFE	0.45	Amber	Standard	UN203APUORG	-
PVDF*	0.2	Translucent	Standard	UN203NPEAQU	UN503NPEAQU
PVDF	0.2	Translucent	Slit septum	US203NPEAQU	US503NPEAQU
PVDF	0.2	Amber	Standard	UN203APEAQU	-
PVDF	0.45	Translucent	Standard	UN203NPUAQU	UN503NPUAQU
PVDF	0.45	Translucent	Slit septum	US203NPUAQU	US503NPUAQU
PVDF	0.45	Amber	Standard	UN203APUAQU	-
PES*	0.2	Translucent	Standard	UN203NPEPES	UN503NPEPES
PES	0.2	Translucent	Slit septum	US203NPEPES	US503NPEPES
PES	0.2	Amber	Standard	UN203APEPES	-
PES	0.45	Translucent	Standard	UN203NPUPES	UN503NPUPES
PES	0.45	Amber	Standard	UN203APUPES	-
PES	0.45	Translucent	Slit septum	US203NPUPES	US503NPUPES
RC*	0.2	Translucent	Standard	UN203NPERC	UN503NPERC
RC	0.45	Translucent	Standard	UN203NPURC	UN503NPURC
Nylon	0.2	Translucent	Standard	UN203NPENYL	UN503NPENYL
Nylon	0.2	Translucent	Slit septum	US203NPENYL	US503NPENYL
Nylon	0.2	Amber	Standard	UN203APENYL	-
Nylon	0.45	Translucent	Standard	UN203NPUNYL	UN503NPUNYL
Nylon	0.45	Translucent	Slit septum	US203NPUNYL	US503NPUNYL
Nylon	0.45	Amber	Standard	UN203APUNYL	-
PP*	0.2	Translucent	Standard	UN203NPEPP	UN503NPEPP
PP	0.2	Translucent	Slit septum	US203NPEPP	US503NPEPP
PP	0.2	Amber	Standard	UN203APEPP	-
PP	0.45	Translucent	Standard	UN203NPUPP	UN503NPUPP
PP	0.45	Translucent	Slit septum	US203NPUPP	US503NPUPP
PP	0.45	Amber	Standard	UN203APUPP	-
DpPP*	0.45	Translucent	Standard	UN203NPUDPP	UN503NPUDPP
DpPP	0.45	Translucent	Slit septum	US203NPUDPP	US503NPUDPP
DpPP	0.45	Amber	Standard	UN203APUDPP	-
Glass fiber	0.45	Translucent	Standard	UN203NPUGMF	UN503NPUGMF
Glass fiber	0.45	Translucent	Slit septum	US203NPUGMF	US503NPUGMF
Glass fiber	0.45	Amber	Standard	UN203APUGMF	-

Multi Compressor

Description	Product code
Multi Compressor - 6 positions 1/pack	CR0000006

* RC = regenerated cellulose, PVDF = Polyvinylidene difluoride, PTFE = Polytetrafluoroethylene, PP = Polypropylene, PES = Polyethersulfone, DpPP: Polypropylene depth filter

Chemical compatibility of membranes and housings*

Selecting the right filter depends on the solvent that you are using for your application. This table will help ensure that you get it right the first time.

Solvent	ANP	CA	CN	PC	PE	GMF	NYL	PP	DpPP	PES	PTFE [‡]	PVDF	RC
Acetic acid, 5%	R	LR	R	R		R	R	R	R	R	R	R	R
Acetic acid, glacial	R	NR	NR			R	LR	R	R	R	R	R	NR
Acetone	R	NR	NR	NR	R	R	R	R	R	NR	R	NR	R
Acetonitrile	R	NR	NR			R	R	R	R	NR	R	R	R
Ammonia, 6 N	NR		NR	NR	LR	LR	R	R	R	R	R	LR	LR
Amyl acetate	LR	NR	NR	NR	R	R	R	R	R	LR	R	LR	R
Amyl alcohol	R	LR	LR			R	R	R	R	NR	R	R	R
Benzene [†]	R	R	R	NR	R	R	LR	NR	NR	R	R	R	R
Benzyl alcohol [†]	R	LR	LR	LR	R	R	LR	R	R	NR	R	R	R
Boric acid	R	R	R	R	R	R	LR	R	R		R	R	R
Butyl alcohol	R	R	R	R	R	R	R	R	R	R	R	R	R
Butyl chloride [†]						R	NR	NR	NR		R	R	
Carbon tetrachloride [†]	R	NR	R	LR	R	R	LR	NR	NR	NR	R	R	R
Chloroform [†]	R	NR	R	NR	R	R	NR	LR	LR	NR	R	R	R
Chlorobenzene [†]	R		LR	NR		R	NR	LR		NR	R	R	R
Citric acid						R	LR	R		R	R	R	R
Cresol		NR	R			R	NR	NR	NR	NR	R	NR	R
Cyclohexane	R	NR	NR	R	R	R	NR	NR	NR	NR	R	R	R
Cyclohexanone	R	NR	NR			R	NR	R	R	NR	R	R	R
Diethylacetamide		NR	NR			R	R	R	R		R	NR	R
Dimethylformamide	LR	NR	NR			R	R	R	R	NR	R	NR	LR
Dioxane	R	NR	NR	NR	R	R	R	R	R	LR	R	LR	R
DMSO	LR	NR	NR	NR	R	R	R	R	R	NR	R	LR	LR
Ethanol	R	R	NR	R	R	R	R	R	R	R	R	R	R
Ethers	R	LR	LR	R	R	R	R	NR	NR	R	R	LR	R
Ethyl acetate	R	NR	NR	NR	R	R	R	R	R	NR	R	NR	R
Ethylene glycol	R	LR	LR	R	R	R	R	R	R	R	R	R	R
Formaldehyde	LR	LR	R	R	R	R	R	LR	LR	R	R	R	LR
Freon TF	R	R	R	R	R	R	NR	NR	NR	R	R	R	
Formic acid		LR	LR			R	NR	R	R	R	R	R	LR
Hexane	R	R	R	R	R	R	R	R	R	R	R	R	R
Hydrochloric acid, conc.	NR	NR	NR	NR	NR	R	NR	LR	LR	R	R	R	NR
Hydrofluoric acid		NR	NR			NR	NR	LR	LR		R	R	NR

Solvent	ANP	CA	CN	PC	PE	GMF	NYL	PP	DpPP	PES	PTFE [†]	PVDF	RC
Isobutyl alcohol	R	LR	LR	R	R	R	R	R	R		R	R	R
Isopropyl alcohol	R	R	LR			R	R	R	R		R	R	R
Methanol	R	R	NR	R	R	R	R	R	R	R	R	R	R
Methyl ethyl ketone	R	LR	NR	NR	R	R	R	R	R	NR	R	NR	R
Methylene chloride [†]	R	NR	LR			R	NR	LR	LR	NR	R	R	R
Nitric acid, conc.		NR	NR	LR	NR	R	NR	NR	NR	NR	R	R	NR
Nitric acid, 6 N		LR	LR			R	NR	LR	LR	LR	R	R	LR
Nitrobenzene [†]	LR	NR	NR	NR	R	R	LR	R	R	NR	R	R	R
Pentane	R	R	R	R	R	R	R	NR	NR	R	R	R	R
Perchloroethylene	R	R	R			R	LR	NR	NR	NR	R	R	R
Phenol 0.5%	LR	LR	R			R	NR	R	R	NR	R	R	R
Pyridine	R	NR	NR	NR	R	R	LR	R	R	NR	R	NR	R
Sodium hydroxide, 6N	NR	NR	NR	NR	NR	NR	LR	R	R	R	R	NR	NR
Sulfuric acid, conc.	NR	NR	NR	NR	NR	R	NR	NR	NR	NR	R	NR	NR
Tetrahydrofuran	R	NR	NR			R	R	LR	LR	NR	R	R	R
Toluene [†]	R	LR	R	NR	R	R	LR	LR	LR	NR	R	R	R
Trichloroethane [†]	R	NR	LR	NR	R	R	LR	LR	LR	NR	R	R	R
Trichloroethylene [†]	R		R			R	NR	LR	LR	NR	R	R	R
Water	R	R	R	R	R	R	R	R	R	R	R	R	R
Xylene [†]	R	R	R			R	LR	LR	LR	LR	R	R	R
Xylene [†]	R	R	R			R	LR	LR	LR	LR	R	R	R

* ANP = Anopore; CA = Cellulose acetate; CN = Cellulose nitrate; DpPP = Polypropylene depth filter; GMF = Glass microfiber; NYL = Nylon; PC = Polycarbonate; PE = Polyester; PES = Polyethersulfone; PP = Polypropylene; PTFE = Polytetrafluoroethylene; PVDF = Polyvinylidene difluoride; RC = Regenerated cellulose, R = Resistant; LR = Limited Resistance; NR = Not Recommended.

[†] Short Term Resistance of Housing.

[‡] Membrane may need pre-wetting with isopropanol/methanol if filtering a polar liquid.

The above data is to be used as a guide only. Testing prior to application is recommended.

Using an irregular chemical solvent? Consult our chemical compatibility table, and contact us for a free sample of the membrane most suitable for your application.

General laboratory accessories

In addition to the filtration consumable range, we provide a comprehensive range of accessories for routine work in your laboratory.



1PS phase separator



Grade 105 lens cleaning tissue



Benchkote™ protection paper



pH paper



Vacu-Guard Pump protection filter

Description	Product name	Dimension	Quantity	Product code	
Phase separation paper <ul style="list-style-type: none"> • Separatory funnel replacement: Automatic cut-off • Ease of use: No special training required 	1PS Phase separator paper	Diam. 125 mm	100/pack	2200-125	
		Diam. 150 mm	100/pack	2200-150	
Optical lens cleaning tissue <ul style="list-style-type: none"> • Soft tissue for removing surface moisture and grease from lenses and other optical surfaces 	Grade 105	100 × 150 mm	25 wallets of 25 sheets	2105-841	
		200 × 300 mm	100/pack	2105-862	
Benchkote bench protection papers <ul style="list-style-type: none"> • High-quality, smooth, absorbent Whatman paper • Quickly absorbs liquid spills and protect the working surface • Benchkote Plus is thicker and more absorbent 	Benchkote	460 × 570 mm	50/pack	2300-916	
		460 mm × 50 m	1/pack	2300-731	
	Benchkote Plus	500 × 600 mm	50/pack	2301-6150	
		600 mm × 50 m	1/pack	2301-6160	
pH Indicator Paper <ul style="list-style-type: none"> • Range of pH indicator and test papers for rapid results 	Color Bonded, 0.0 to 14.0 range	6 × 80 mm	100 strips, 1/pack	2613-991	
		Standard Full Range, Reel, 1.0 to 14.0 range	7 mm × 5 m	1/pack	2600-100A
		Standard Narrow Range, Reel, 4.0 to 7.0 range	7 mm × 5 m	1/pack	2600-102A
Pump protection filters <ul style="list-style-type: none"> • Protects vacuum pump systems from aqueous aerosols. Hydrophobic PTFE membranes retain 99,99% of airborne particles > 0.1 µm 	Vacu-Guard	50 mm	10/pack	6722-5000	



Fermentation vessel venting

	Membrane type	Filtration area	Product code
Polydisc TF	PTFE	16 cm ²	6720-5002
Hepavent	Hydrophobically treated glass microfiber	16 cm ²	6723-5000
Polyvent	PTFE	500 cm ²	6713-5036
		1000 cm ²	6713-1075
Hepacap	Hydrophobically treated glass microfiber	625 cm ²	2609T
		1300 cm ²	2709T
		2590 cm ²	2809T

Description	Product name	Dimension	Quantity	Product code
Filtration flask for batch filtration <ul style="list-style-type: none"> Consists of a 250 ml glass filtration funnel and 1000 ml flask, funnel base, top, and clamp Good choice for use with Whatman filtration membranes 	Whatman GV050/2 vacuum filtration unit			10442200
Pressure filtration apparatus <ul style="list-style-type: none"> Stainless steel Infusion vessel 2200 ml 	MD142/5/3	142 mm	1	10451610
Pressure filter holder <ul style="list-style-type: none"> PTFE Infusion vessel 1500 ml 	MD142/7/3	142 mm	1	10451710
3-piece filter funnel <ul style="list-style-type: none"> For quick and easy filtration Choice of 3 plates 	Filter funnel	47 mm	1	1950-004
	Filter funnel	90 mm	1	1950-009
	Filter funnel	70 mm	1	1950-017
Membrane holder <ul style="list-style-type: none"> Produced from borosilicate glass Suitable for aqueous and organic solvent filtration 	Vacuum-type glass membrane holder	47 mm	1	1960-004
	Vacuum-type glass membrane holder	90 mm	1	1960-009

Appendix: filters for other analytical techniques

GE's Whatman products are among the industry leaders in separations technology, and our analytical sample filtration collection is no exception. Every filter is manufactured to exacting specifications that ensure reliable results and uncompromised performance.

Puradisc Aqua 30

11 12



Puradisc FP

3* 4 8*
10 13

*Notes:
3 and 8: CA



ReZist

1 4 13



Applications

1. Air venting
2. Automated filtration of samples/
Tablet dissolution testing
3. Biological sample preparation
4. Capillary electrophoresis
5. Difficult-to-filter samples
(high solid content samples)
6. Filtration of colloidal material
7. Ion chromatography
8. Filtration of protein-containing samples
9. Filtration of nanoparticles
10. Sterile filtration (use sterile filter
and membrane with pore size 0.2 µm)
11. COD/TOC/DOC
12. Trace metal analysis (ICP/AAS/ICP-MS)
13. UV/VIS analysis

COD = Chemical oxygen demand;
TOC = Total organic carbon;
DOC = Dissolved organic carbon
Note: For guidance only. Only a selection
of applications shown above

Anotop

3 4 6 7
8 9* 10 13

*Notes: 0.02 µm



Anotop Plus

4 5 9*

*Notes: 0.02 µm



Roby

2



SPARTAN

4 8 13



Whatman GD/X

4 5 10 13



Puradisc

3* 4 8* 10
11* 12* 13

*Notes:
3 and 8: CA, PES, PVDF
11 and 12: PES



Mini-UniPrep

2



GD/XP

4 5 7
11 12 13



Select your filter online at
gelifsciences.com/LabFilterSelector



iPad™ and Android™ versions can be found
in the Apple™ and Google™ app stores.
Please search for “Whatman Filters.”

Ordering information



ReZist

Product code	Diameter (mm)	Pore size (µm)	Membrane/housing*	Connection in/out*	Color code	Quantity/pack
10463703	13	0.2	PTFE/PP	FLL/Mini-Tip	white	100
10463713	13	0.45	PTFE/PP	FLL/Mini-Tip	green	100
10463503	30	0.2	PTFE/PP	FLL/ML	white	100
10463505	30	0.2	PTFE/PP	FLL/ML	white	500
10463513	30	0.45	PTFE/PP	FLL/ML	green	100
10463515	30	0.45	PTFE/PP	FLL/ML	green	500
10463523	30	1.0	PTFE/PP	FLL/ML	yellow	100
10463525	30	1.0	PTFE/PP	FLL/ML	yellow	500
10463533	30	5.0	PTFE/PP	FLL/ML	gray	100
10463535	30	5.0	PTFE/PP	FLL/ML	gray	500
10463500 [†]	30	0.2	PTFE/PP	FLL/ML	white	50
10463543	30	> 1	GF92/PP	FLL/MLL	natural	100
10463545	30	> 1	GF92/PP	FLL/MLL	natural	500

* FLL = Female Luer lock; GF = Glass fiber; ML = Male Luer; MLL = Male Luer lock; PP = Polypropylene; PTFE = Polytetrafluoroethylene

[†] Sterile



Roby Syringe Filters

Product code	Description	Diameter (mm)	Pore size (µm)	Membrane/housing*	Connection in/out*	Color code	Quantity/pack
10463803	Roby 25 NL	25	0.45	NYL/PP	FLL/ML	translucent yellow	200 [†]
10463802	Roby 25 NL	25	0.45	NYL/PP	FLL/ML	translucent yellow	1000
10463805	Roby 25 NL-GF92	25	0.45	NYL-GF/PP	FLL/ML	yellow	200 [†]
10463804	Roby 25 NL-GF92	25	0.45	NYL-GF/PP	FLL/ML	yellow	1000
10463807#	Roby 25 RC	25	0.45	RC/PP	FLL/ML	translucent brown	200 [†]
10463806#	Roby 25 RC	25	0.45	RC/PP	FLL/ML	translucent brown	1000
10463809#	Roby 25 RC-GF92	25	0.45	RC-GF/PP	FLL/ML	brown	200 [†]
10463808#	Roby 25 RC-GF92	25	0.45	RC-GF/PP	FLL/ML	brown	1000
10463813#	Roby 25 CA-GF92	25	0.45	CA-GF/PP	FLL/ML	green	200 [†]
10463812#	Roby 25 CA-GF92	25	0.45	CA-GF/PP	FLL/ML	green	1000
10463814	Roby 25/GF55	25	0.7	GF/PP	FLL/ML	natural	200 [†]
10463815	Roby 25/GF55	25	0.7	GF/PP	FLL/ML	natural	1000
10463801	Roby 25/GF92	25	> 1	GF/PP	FLL/ML	natural	200 [†]
10463800	Roby 25/GF92	25	> 1	GF/PP	FLL/ML	natural	1000
10463898#	Filter Validation Kit [‡]	25	-	-	FLL/ML	-	150

* GF = Glass fiber; PP = Polypropylene; NYL = Nylon; RC = Regenerated cellulose; FLL = Female Luer lock; ML = Male Luer

[†] 8 tubes with 25 pieces each

[‡] Filter Validation Kit includes: Roby 25/GF92; Roby 25/GF55; Roby 25/RC; Roby 25/RC-GF92; Roby 25 NL; Roby 25 NL-GF92. (6 tubes of 25 pieces each)

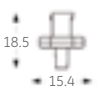
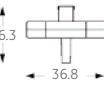
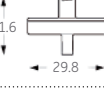
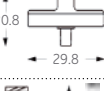
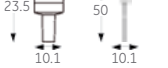

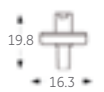
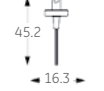
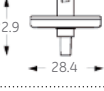
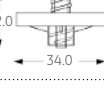
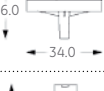
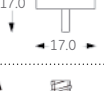
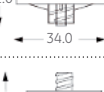
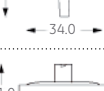
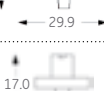
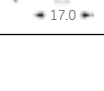
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Anotop Syringe Filters

Product code	Membrane	Pore size (µm)	Hydrophilic	Protein binding	Solvent resistance	Quantity/pack
Anotop 10 mm diameter						
6809-1002	Anopore	0.02	Yes	Low	Very good	50
6809-1012	Anopore	0.1	Yes	Low	Very good	50
6809-1022	Anopore	0.2	Yes	Low	Very good	50
6809-1102	Anopore sterile	0.02	Yes	Low	Very good	50
6809-1112	Anopore sterile	0.1	Yes	Low	Very good	50
6809-1122	Anopore sterile	0.2	Yes	Low	Very good	50
Anotop 10 Plus, glass prefilter						
6809-3002	Anopore with prefilter	0.02	Yes	Medium	Very good	50
6809-3012	Anopore with prefilter	0.1	Yes	Medium	Very good	50
6809-3022	Anopore with prefilter	0.2	Yes	Medium	Very good	50
6809-3102	Anopore with prefilter sterile	0.02	Yes	Medium	Very good	50
6809-3112	Anopore with prefilter sterile	0.1	Yes	Medium	Very good	50
6809-3122	Anopore with prefilter sterile	0.2	Yes	Medium	Very good	50
Anotop 25 mm diameter						
6809-2002	Anopore	0.02	Yes	Low	Very good	50
6809-2012	Anopore	0.1	Yes	Low	Very good	50
6809-2022	Anopore	0.2	Yes	Low	Very good	50
6809-2024	Anopore	0.2	Yes	Low	Very good	200
6809-2102	Anopore sterile	0.02	Yes	Low	Very good	50
6809-2112	Anopore sterile	0.1	Yes	Low	Very good	50
6809-2122	Anopore sterile	0.2	Yes	Low	Very good	50
Anotop 25 Plus, glass prefilter						
6809-4002	Anopore with prefilter	0.02	Yes	Medium	Very good	50
6809-4012	Anopore with prefilter	0.1	Yes	Medium	Very good	50
6809-4022	Anopore with prefilter	0.2	Yes	Medium	Very good	50
6809-4024	Anopore with prefilter	0.2	Yes	Medium	Very good	200
6809-4102	Anopore with prefilter sterile	0.02	Yes	Medium	Very good	50
6809-4112	Anopore with prefilter sterile	0.1	Yes	Medium	Very good	50
6809-4122	Anopore with prefilter sterile	0.2	Yes	Medium	Very good	50
Anotop 10 IC, ion chromatography certified						
6809-9233	Anopore	0.2	Yes	Low	Very good	100
6809-9234	Anopore	0.2	Yes	Low	Very good	200
Anotop 10 IC Blister, sterile						
6809-9232	Anopore	0.2	Yes	Low	Very good	50
6809-9235	Anopore	0.2	Yes	Low	Very good	250
Anotop 25 IC, ion chromatography certified						
6809-9244	Anopore	0.2	Yes	Low	Very good	200

Technical data of syringe filters

Name	Dia. (mm)	Housing material*	Max. operating pressure (psi/bar)	Effective filter area (cm ²)	Hold-up volume after air purging (µl)	Inlet*	Outlet*	Dimensions (mm)
Anotop 10, Anotop 10 Plus, Anotop 10 IC	10	PP	100/6.9	0.78	Anotop 10 & 1C: < 20 Anotop 10 Plus: < 30	FLL	ML	
Anotop 25, Anotop 25 Plus, Anotop 25 IC	25	PP	100/6.9	4.78	Anotop 25 & 1C: < 150 Anotop 25 Plus: < 200	FLL	ML	
GD/X 13	13	PP	75/5.2	1.3	50 (approx)	FLL	ML	
GD/X 25, GD/XP	25	PP	75/5.2	4.6	250 (approx)	FLL	ML	
Puradisc 4 with and without tip (all membranes apart from PVDF)	4	PP	75/5.2	0.2	< 10	FLL	ML	
Puradisc 4 with and without tip (PVDF membrane only)	4	PP	75/5.2	0.2	< 10	FLL	ML Tube Tip	
Puradisc 13	13	PP	75/5.2	1.3	< 25	FLL	ML	
Puradisc 13 with Tube Tip	13	PP	75/5.2	1.3	< 25	FLL	Tube Tip	
Puradisc 25	25	PP	75/5.2	4.2	< 100	FLL	ML	
Puradisc FP	30	PC	100/6.9	5.7	≤ 50	FLL	MLL	
Puradisc FP, Aqua 30	30	PC	100/6.9	5.7	≤ 50	FLL	ML	
ReZist 13, Spartan 13 with Mini-Tip	13	PP	100/6.9	0.75	≤ 10	FLL	Mini-Tip	
ReZist 30	30	PP	100/6.9	5.7	≤ 50	FLL	MLL	
ReZist 30, Spartan 30	30	PP	100/6.9	5.7	≤ 50	FLL	ML	
Roby 25	25	PP	100/6.9	4.2	≤ 50	FLL	ML	
Spartan 13	13	PP	100/6.9	0.75	≤ 10	FLL	ML	

* FLL = Female Luer lock; ML = Male Luer; MLL = Male Luer lock; PP = Polypropylene



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