Acrodisc™ syringe filters

FOR HPLC, UHPLC, AND IC SAMPLE PREPARATION

Whether you are pursing goals in life science, pharmaceutical methods, research and development, quality control, or specialty environmental application, our Acrodisc™ syringe filters for high pressure liquid chromatography (HPLC), ultra-high pressure liquid chromatography (UHPLC), and ion chromatography (IC) offer reliable quality. Our media separation technology ensures:

- Accurate pore size ratings for better chromatography and instrument and column protection.
- Uniform membrane materials (lot-to-lot) for consistent analytical results.
- Low extractable materials for less chromatographic interference.
- Materials of construction selected specifically for analytical analysis with lower extractables and lower API absorption.

Applications

- HPLC
- UHPLC
- IC
- Prefiltration

Certification

HPLC certification

We certify that the following HPLC Acrodisc syringe filters have been tested for compatibility with common HPLC solvents using established HPLC procedures. To verify low levels of UV-detectable extractables, representative samples are tested using a highly sensitive HPLC technique.

IC certification

We certify the following IC Acrodisc syringe filters have been tested by ion chromatography. To monitor inorganic extractables, statistically representative samples are tested. Actual background levels of filter extractables are typically less that 20 ppb for chloride, 6 ppb for nitrate, 1 ppb for phosphate, and 10 ppb for sulfate.



Fig 1. Acrodisc syringe filters.

Syringe filters for prefiltration

Our glass fiber Acrodisc syringe filters provide fast flow rates and high particulate holding capacities, which make it an excellent filter for prefiltration of heavily contaminated samples.

Instructions for use

Before filling the syringe with sample, draw approximately 1 mL of air into the syringe. This will allow the air to follow the sample out of the syringe. This “air purge” minimizes fluid retention within the filter.

Fill the syringe with the solution to be filtered.

Caution: Use of syringes smaller than 10 mL can generate excessive pressure on the filter, which can exceed maximum operating pressure.

Holding the filter device in one hand and the filled syringe in the other, secure (without excessive force) the filled syringe to the filter with a twisting motion.

Apply gentle pressure to begin filtration (a gentle pressure helps assure maximum throughput).

Caution: As the filter remove particulate, filtration will become more difficult (the syringe plunger will be harder to use) and pressure will rapidly increase on the filter. Change filters when resistance becomes excessive. Failure to change filter may result in housing rupture, which results in particulate contaminating the filtrate.

These filters are for single use only.

DOMINIQUE DUTSCHER SAS

Technical specifications

Materials of construction

Filter media:	
PTFE	Hydrophic polytetrafluoroethylene membrane on a polypropylene (PP) support
wwPTFE	Water wettable PTFE membrane on a PP support
PVDF	Hydrophilic polyvinylidene fluoride membrane
Nylon	Hydrophilic nylon membrane
Supor PES membrane	Hydrophilic polyethersulfone
Glass	Binder-free borosilicate glass fiber
Housings	PP

Pore size

0.2 µm, 0.45 µm, 1 µm

Effective filtration area

13 mm	1.0 cm^2
25 mm	2.8 cm^2

Inlet/outlet connections

Inlet	Female luer lock
Outlet	Male luer outlet Minispike

Typical hold-up volume (with air purge)

13 mm (minispike)	< 14 µL
13 mm	< 30 µL
25 mm	< 100 µL

Maximum operating temperature

wwPTFE, nylon, and Supor PES membrane	55°C
PTFE and PVDF	100°C
Glass fiber	135°C

Maximum operating pressure

wwPTFE	13 mm and 25 mm	6.2 bar
PTFE	13 mm	6.9 bar
	25 mm	4.1 bar
PVDF	13 mm	3.5 bar
	25 mm	4.1 bar
Nylon	13 mm	6.9 bar
	25 mm	4.1 bar

Table 1. Chemical compatibility
Resistant (R): No significant change was observed in flow rate or bubble point.
Limited resistance (LR): Moderate changes in physical properties of the membrane were observed.
Not resistant (NR): The membrane in basically unstable and is not recommended for use.
Insufficient data (–): Information not available. Trial testing is recommended.

Solvent	wwPTFE	PTFE	Glass	Nylon	IC, Supor PES membrane	PVDF
Acetone	R	R	R	R	NR	NR
Acetonitrile	R	R	R	R	R	R
Acetic acid, glacial	R	R	R	NR	R	R
n-Butanol	R	R	R	R	R	R
Chloroform	R	R	R	R	NR	NR
Dimethyl formamide	R	R	R	R	NR	NR
Dimethyl sulfoxide	R	R	R	R	NR	R
Ethanoll	R	R	R	R	R	R
Ethyl acetate	R	R	R	R	NR	R
Ethel ether	R	R	R	R	R	R
Hydrochloric acid (1N)	R	R	R	NR	R	R
Hexane (dry)	R	R	R	R	LR	R
Methanol	R	R	R	R	R	R
Methylene chloride	R	R	R	R	NR	R
Methyl ethyl ketone	R	R	R	R	NR	NR
N-methyl pyrrolidone	R	R	R	NR	NR	R
Isopropanol	R	R	R	R	R	R
Sodium hydroxide (3N)	R	R	R	R	R	NR
Tetrahydrofuran	R	R	R	R	NR	NR
Tetrahydrofuran/ water (50/50)	R	R	R	R	–	R
Toluene	R	R	R	R	R	R
Water	R	R	R	R	R	R
Ammonium hydroxide	R	R	R	–	–	–

DOMINIQUE DUTSCHER SAS

Ordering information

13 mm Acrodisc syringe filters for HPLC

Filter medium	µm	Outlet	Amount per package	Product code
wwPTFE	0.2	Minispike	300/cs	2400
			1000/pkg	2401
	0.45	Minispike	300/cs	2402
			1000/pkg	2403
PTFE	0.2	Male luer	300/cs	4423
			1000/pkg	4542
		Minispike	300/cs	4552
	0.45	Male luer	300/cs	4422
			1000/pkg	4543
		Minispike	300/cs	4553
			1000/pkg	4555
PVDF	0.2	Male luer	300/cs	4455
		Minispike	300/cs	4450
			1000/pkg	4544
	0.45	Male luer	300/cs	4457
		Minispike	300/cs	4452
			1000/pkg	4545
Nylon	0.2	Male luer	300/cs	4427
			1000/pkg	4540
		Minispike	300/cs	4550
			1000/pkg	4561
	0.45	Male luer	300/cs	4426
			1000/pkg	4541
		Minispike	300/cs	4551
			1000/pkg	4546

25 mm Acrodisc syringe filters for HPLC (with male luer outlet)

Filter medium	µm	Amount per package	Product code
wwPTFE	0.2	200/cs	4927
		1000/pkg	4929
	0.45	200/cs	4914
		1000/pkg	4932
PTFE	0.2	200/cs	4225
		1000/pkg	4251
		200/cs	4219
	0.45	1000/pkg	4501
		200/cs	4226
	1	1000/pkg	4503
PVDF	0.2	200/cs	4406
		1000/pkg	4520
	0.45	200/cs	4408
		1000/pkg	4500
Nylon	0.2	200/cs	4436
		1000/pkg	4522
	0.45	200/cs	4438
		1000/pkg	4502

25 mm Acrodisc syringe filters for IC

Filter medium	µm	Amount per package	Product code
Supor PES membrane	0.2	200/cs	4583
		1000/pkg	4783
	0.45	200/cs	4585
		1000/pkg	4785

Syringe filters for prefiltration

Filter medium	µm	Amount per package	Product code
Glass fiber	1	200/cs	4523
		1000/pkg	4529

DOMINIQUE DUTSCHER SAS

cytiva.com

Cytiva and the Drop logo are trademarks of Life Sciences IP Holdings Corporation or an affiliate doing business as Cytiva.
Acrodisc is a trademark of Global Life Sciences Solutions USA LLC or an affiliate doing business as Cytiva.
Any other trademarks are the property of their respective owners.
The Danaher trademark is a proprietary mark of Danaher Corporation.
© 2026 Cytiva

For local office contact information, visit cytiva.com/contact

CY60487-12Jun26-DF

danaher