

# Acrodisc® Syringe Filters with PVDF Membrane & FP Vericel™ (PVDF) Membrane Disc Filters

Hydrophilic membrane compatible with a wide variety of solvents



- Useful for a wide range of applications, including aggressive and non-aggressive solvent-based mobile phase.
- Reduce experimental variables. HPLC certified for low levels of UV-absorbing extractables.
- Protect columns and instrumentation against particulate build up.
- 13 mm device with minispike configuration offers low hold up and easy filtration into autosampler vials.

## Applications

- Offers excellent chemical compatibility, even with aggressive acids and alcohols.
- Not recommended for acetone, DMF, DMSO, or bases > 6N.
- Acrodisc PSF syringe filter is available in robotic-compatible AutoPack™ packaging for Caliper\*\*\* Prelude\*, TPWII, and Multi-Dose\* systems and Sotax\* dissolution systems.

## Specifications

*Acrodisc Syringe Filters with PVDF Membrane*

### Materials of Construction

Filter Media: Hydrophilic polyvinylidene fluoride (PVDF)  
Housing: Polypropylene  
GxF Prefilter: Binder-free borosilicate glass

### Pore Size

0.2 and 0.45 µm

### Effective Filtration Area

13 mm: 1.0 cm<sup>2</sup>  
25 mm PSF: 3.9 cm<sup>2</sup>

### Sample Volume

13 mm: < 10 mL  
25 mm PSF: < 150 mL

### Inlet/Outlet Connections

13 and 25 mm PSF: Female luer lock inlet, male slip luer outlet  
13 mm: Available with minispike outlet

### Typical Hold-up Volume

(with air purge)  
13 mm (minispike): < 14 µL  
13 mm (male luer): < 30 µL  
25 mm PSF: < 100 µL  
25 mm PSF GxF: < 125 µL

### Maximum Operating Temperature

13 mm: 55 °C (131 °F)  
25 mm PSF: 100 °C (212 °F)

### Maximum Operating Pressure

13 mm: 3.5 bar (350 kPa, 50 psi)  
25 mm PSF: 4.1 bar (410 kPa, 60 psi) at 21 -24 °C (70 -75 °F); 2.1 bar (210 kPa, 30 psi) at 82 °C (180 °F)

### Typical Water Flow Rate

mL/min at 3.1 bar (310 kPa, 45 psi)  
13 mm, 0.2 µm: 5  
13 mm, 0.45 µm: 15

mL/min at 2.1 bar (210 kPa, 30 psi)  
25 mm PSF and GxF: 144

*FP Vericel Membrane Disc Filters*

### Filter Media

Hydrophilic polyvinylidene fluoride (PVDF)

### Pore Size

0.2 and 0.45 µm

### Typical Water Flow Rate

mL/min/cm<sup>2</sup> at 0.7 bar (70 kPa, 10 psi)  
0.2 µm: 5  
0.45 µm: 26

### Maximum Operating Temperature - Water

100 °C (212 °F)

### Minimum Bubble Point - Water

0.2 µm: 2.3 bar (230 kPa, 34 psi)  
0.45 µm: 1.1 bar (110 kPa, 16 psi)

### Typical Thickness

0.2 µm: 140 µm (5.5 mils)  
0.45 µm: 127 µm (5.0 mils)

### Sterilization

Provided non-sterile, autoclavable if desired.

### Chemical Compatibility

For detailed information about chemical compatibility by membrane type, see the Chemical Compatibility Chart on page 366 - 367.

\*\*Caliper Life Sciences was previously Zymark Corporation.



## Ordering Information

### Acrodisc® Syringe Filters with PVDF Membrane, 13 mm

Part Number	Description	Pkg
4450	0.2 µm, minispike outlet	100/pkg 300/cs
4544	0.2 µm, minispike outlet	1000/pkg
4452	0.45 µm, minispike outlet	100/pkg 300/cs
4545	0.45 µm, minispike outlet	1000/pkg

### Acrodisc Syringe Filters with PVDF Membrane, 13 mm

Part Number	Description	Pkg
4455	0.2 µm, male slip luer outlet	100/pkg 300/cs
4457	0.45 µm, male slip luer outlet	100/pkg 300/cs

### Acrodisc PSF Syringe Filters with PVDF Membrane, 25 mm

Part Number	Description	Pkg
AP-4519	0.45 µm, AutoPack™ tubes	25/pkg 200/cs
AP-4408	0.45 µm	50/pkg 200/cs
AP-4500	0.45 µm	1000/pkg

### Acrodisc PSF GxS Syringe Filters with PVDF Membrane, 25 mm

Part Number	Description	Pkg
AP-4309	GxF/0.45 µm, AutoPack tubes	25/pkg 200/cs
AP-4310	GxF/0.45 µm	50/pkg 200/cs
AP-4308	GxF/0.45 µm	1000/pkg

### FP Vericel™ (PVDF) Membrane Disc Filters, 0.2 µm

Part Number	Description	Pkg
66475	13 mm	100/pkg
66476	25 mm	100/pkg
66477	47 mm	100/pkg

### FP Vericel (PVDF) Membrane Disc Filters, 0.45 µm

Part Number	Description	Pkg
66478	13 mm	100/pkg
66479	25 mm	100/pkg
66480	47 mm	100/pkg

### Related Products

47 mm Glass Filter Funnels	.....	232
Stainless Steel Forceps	.....	252
SolVac® Filter Holder	.....	230
Vacuum/Pressure Pump	.....	319
13 mm Plastic Swinney Filter Holder	.....	312
25 mm Easy Pressure Syringe Filter Holder	.....	313
13, 25, 47 mm Filter Holders, Stainless Steel	.....	331