

# Acrodisc® Syringe Filters With PVDF Membrane

Hydrophilic membrane compatible with a wide variety of solvents



## Specifications

### Materials of Construction

Filter Media: Hydrophilic polyvinylidene fluoride (PVDF)  
Housing: Polypropylene  
GxF Prefilter: Borosilicate glass

### Pore Size

PVDF Membrane: 0.2 and 0.45  $\mu\text{m}$   
GxF Prefilter: 40 - 1  $\mu\text{m}$

### Effective Filtration Area

13 mm: 1.0  $\text{cm}^2$   
25 mm PSF: 3.9  $\text{cm}^2$

### 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 minispikes outlet

### Typical Hold-Up Volume

(with air purge)  
13 mm (minispikes): < 14  $\mu\text{L}$   
13 mm (male luer): < 30  $\mu\text{L}$   
25 mm PSF: < 100  $\mu\text{L}$   
25 mm PSF GxF: < 125  $\mu\text{L}$

### Maximum Operating Temperature

13 mm: 55 °C (131 °F)  
25 mm PSF: 82 °C (180 °F) at 2.1 bar (210 kPa, 30 psi)

### 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  $\mu\text{m}$ : 5  
13 mm, 0.45  $\mu\text{m}$ : 15  
mL/min at 2.1 bar (210 kPa, 30 psi)  
25 mm, 0.45  $\mu\text{m}$  PSF and GxF: 144

- ▶ Acrodisc PSF syringe filters are Zymark® and SOTAX® Automation Certified to assure smooth operation and worry-free performance 24 hours a day in automated workstations.
- ▶ Useful for a wide range of applications, including aggressive and non-aggressive solvent-based mobile phase.
- ▶ Reduces experimental variables. HPLC certified for low levels of UV-absorbing extractables.
- ▶ Protects columns and instrumentation against particulate build up.
- ▶ 13 mm device with minispikes 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.
- ▶ 25 mm Acrodisc PSF syringe filter is available in robotic-compatible AutoPack™ packaging for SOTAX AT-70 SMART® and CTS and Zymark TPW®, APW®, and MultiDose® dissolution systems.

## Ordering Information

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

Part Number	Description	Pkg
4450	0.2 µm, minispikes outlet	100/pkg, 300/cs
4544	0.2 µm, minispikes outlet	1000/pkg
4452	0.45 µm, minispikes outlet	100/pkg, 300/cs
4545	0.45 µm, minispikes outlet	1000/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 Syringe Filters With PVDF Membrane, 25 mm

Part Number	Description	Pkg
4406	0.2 µm	50/pkg, 200/cs
4520	0.2 µm	1000/pkg
4519	0.45 µm, AutoPack™ tubes	25/pkg, 200/cs
4408	0.45 µm	50/pkg, 200/cs
4500	0.45 µm	1000/pkg

### Related Products

47 mm Filter Funnels, Glass . . . . .	206
AcroPrep™ 24 Filtration System . . . . .	201
HPLC Mobile Phase Filtration Membranes . . . . .	177
SolVac® Filter Holder . . . . .	182
Stainless Steel Forceps . . . . .	230, 280
Vacuum/Pressure Pumps . . . . .	279



### Zymark® and SOTAX® Automation Certified Acrodisc PSF Syringe Filters With PVDF Membrane, 25 mm

Part Number	Description	Pkg
AP-4795	0.2 µm, AutoPack tubes	25/pkg, 200/cs
AP-4796	0.2 µm	50/pkg, 200/cs
AP-4797	0.2 µm	1000/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



### Zymark and SOTAX Automation Certified Acrodisc PSF GxF Syringe Filters With PVDF Membrane, 25 mm

Part Number	Description	Pkg
AP-4792	GxF/0.2 µm, AutoPack tubes	25/pkg, 200/cs
AP-4793	GxF/0.2 µm	50/pkg, 200/cs
AP-4794	GxF/0.2 µm	1000/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