

# 50 mm Sterilizing Filter

## Description and use

Positive pressure sterilizing filters are widely applicable to sterilizing filtration of aqueous solutions in biological laboratories, adapt for the peristaltic pump, syringe or other positive pressure device.

GVS 50 mm sterilizing filter is suitable for removing microorganisms, particles, precipitates, and undissolved powders larger than 0.22  $\mu\text{m}$  from aqueous solutions. It has the stepped hose barb design that ensures stable connection between the filter and the hose. The membrane material is 0.22  $\mu\text{m}$  hydrophilic polyethersulfone (PES), can filter samples up to 8 L in volume.



- Membrane diameter: 50 mm
- Membrane pore size: 0.22  $\mu\text{m}$
- Pattern: Two stepped barbs, filling bell
- Materials:
  - Filter housing: Methyl methacrylate-butadiene-styrene (MBS)
  - Filter Membrane: Hydrophilic polyether sulfone (PES)
  - Filling Bell: Polycarbonate (PC)
  - Filling Bell Cap: Low-density polyethylene (LDPE) Conforming to USP Class VI standards

## Features

- The filter membrane is made of 0.22  $\mu\text{m}$  hydrophilic polyether-sulfone for high throughput and excellent filtration performance
- The products have an effective filtration area of up to 19.9  $\text{cm}^2$ , and can filter samples up to 3.8-8 L in volume
- Maximum operating temperature: 45°C
- Maximum inlet pressure: 3.3 bars (50 psi) at 25°C
- Typical water flow rate: 390 mL/min at 25°C under 15 psi
- It is designed with a filling bell avoiding liquid splashing and pollution
- Stepped hose barb design that ensures stable connection between the filter and the hose
- Filter surface with coding marks, clearly distinguish inlet and outlet
- Sterilized by irradiation, SAL 10<sup>-6</sup>, DNase/RNase-free, Non-pyrogenic, Non-cytotoxic

### Special Tips:

The test results show that the 50 mm sterilizing filters are suitable for most aqueous solutions, such as acetic acid (5%), aqueous buffer, cell media, bleaching agent (5% solution), sodium hydroxide (10%), sulfuric acid (20%). The unlisted reagents should be tested for applicability before use.

Ordering information								
Product Code	Description	Adaptive Tube Diameter	Membrane Pore Size ( $\mu\text{m}$ )	Membrane Diameter (mm)	Outer Diameter (mm)	Sterile	Qty. Per Bag	Qty. Per Case
PLAJSF0505SA	PES membrane, two stepped barbs, filling bell	1/2" - 1/4" ID	0.22	50	62	Y	1	10
PLAJSF1505SA	PES membrane, two stepped barbs, without filling bell	1/2" - 1/4" ID	0.22	50	62	Y	1	10