

Acro® 50 Vent Devices With Emflon® II Membrane

Ideal for use in air/gas and vent applications with proprietary, low pressure drop hydrophobic PVDF membrane



- ▶ Emflon II membrane filters have a removal rating of 0.2 µm in liquid service and less than 0.02 µm particulate for air/gas applications.
- ▶ Connects easily to hoses of various sizes in-line or as a final filter.
- ▶ Light weight (< 27 grams) prevents crimping of tubing.
- ▶ Stable with gamma irradiation.
- ▶ Excellent for disposable systems. Eliminates cleaning validation.

Applications

- ▶ Venting of bioreactors, fermentation tanks, and carboys.
- ▶ Gas purging of culture vessels.
- ▶ Ideal for attachment to disposable systems that need to undergo gamma irradiation.

Also Available

Integrity Test Kit

- ▶ Verifies device integrity using one-minute water breakthrough or bubble point tests.
- ▶ Non-destructive test performed either *in situ* or in the lab.
- ▶ For use with Acro 50 vent devices.

Specifications

Materials of Construction

Filter Media: Emflon II membrane (hydrophobic PVDF)
Housing: Polypropylene

Effective Filtration Area

20 cm²

Inlet/Outlet Connections

Stepped hose barbs, 6.4 - 12.7 mm (1/4 - 1/2 in.) diameter with slip luer ID in the hose barb

Maximum Operating Temperature

60 °C (140 °F)

Maximum Operating Pressure

4.1 bar (410 kPa, 60 psi) at ambient temperature

Recommended Integrity Test

Minimum Bubble Point - 60% IPA/40% Water (v:v)
0.8 bar (80 kPa, 12 psi)

Typical Air Flow Rate

27 L/min at 1.0 bar (100 kPa, 15 psi)

Endotoxin Level

< 0.25 EU/mL using Limulus Amoebocyte Lysate (LAL) test

Biological Safety

Passes United States Pharmacopeia (USP) Biological Reactivity Test, *In Vivo* <88>

Bacterial Retention

Lot samples retain a minimum of 10⁷ cfu/cm² of *B. diminuta* per modified ASTM F838, current revision

Sterilization

Provided non-sterile. Stable with gamma irradiation up to 50 kilogray. Can be sterilized by autoclaving at 121 °C (250 °F) for 20 min. Maximum autoclave stability, three cycles at 131 °C (268 °F) for 30 min.

Ordering Information

Acro 50 Vent Devices With Emflon II Membrane

Part Number	Description	Pkg
A50V002P2NV	Hose barb, no vent, 0.2 µm, 100% integrity tested during manufacturing	100/pkg
A50V002P2	Hose barb with vent, 0.2 µm, 100% integrity tested during manufacturing	3/pkg

Integrity Test Kit

Part Number	Description	Pkg
4252	Includes pressure gauge, three-way valve, and 10 mL syringe	1/pkg