

Acro® 50 Vent Devices With PTFE Membrane

50 mm filters with superior performance for demanding applications



- ▶ Reusable and autoclavable.
- ▶ PTFE membrane and polypropylene housing have broad chemical resistance.
- ▶ Large surface area provides greater throughput and high air flow rate.
- ▶ Available with a variety of inlet and outlet connectors.

Applications

- ▶ Venting bioreactors, fermentation tanks, and carboys.
- ▶ Sterile gas purging of culture vessels.
- ▶ Filtering aggressive solvents.

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: PTFE on a polypropylene support
Housing: Polypropylene

Effective Filtration Area

19.6 cm²

Dimensions

Overall Length: 8.2 cm (3.2 in.)
Diameter: 7.3 cm (2.9 in.)

Inlet/Outlet Connections

Stepped hose barbs 6.4 - 12.7 mm (1/4 - 1/2 in.) diameter, 1/8 in. MNPT, 9.5 mm (3/8 in.) straight pipe

Maximum Operating Pressure

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

Recommended Integrity Test

Minimum Bubble Point – Methanol

0.2 µm: 0.9 bar (90 kPa, 13 psi)
0.45 µm: 0.3 bar (34 kPa, 5 psi)
1 µm: 0.2 bar (20 kPa, 3 psi)

Typical Air Flow Rates

L/min at 0.2 bar (20 kPa, 3 psi)
0.2 µm: 8
0.45 µm: 12
1 µm: 15

Biological Safety

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

Sterilization

Provided non-sterile. All are individually packaged (except PN 4250). Can be sterilized by autoclaving at 121 - 123 °C (250 - 253 °F) for 20 min. Integrity should be verified after each autoclave cycle and before use.

Ordering Information

Acro 50 Vent Devices With PTFE Membrane

Part Number	Description	Pkg
4251	0.2 µm, hose barb	18/pkg
4250	0.2 µm, hose barb	72/pkg
4400	0.2 µm, 1/8 in. MNPT	18/pkg
4401	0.2 µm, 9.5 mm (3/8 in.) straight pipe	18/pkg
4256	0.45 µm, hose barb	18/pkg
4258	1 µm, hose barb	18/pkg
4003	1 µm, 1/8 in. MNPT	18/pkg

Integrity Test Kit

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