

High Flow Steridyne® Filter

50 mm PVDF Vent Filter



High Flow 50 mm Vent Filter



The Steridyne® VTF0.2 hydrophobic PVDF vent filter is a high flow, liquid rated, sterilizing-grade filter that meets the critical demands of the pharmaceutical, biotechnology and related industries. It provides the benefits of a filter which flows like a PTFE membrane, but with the inherent gamma stability of a PVDF membrane. The product is designed and purpose built for small-scale critical air and gas filtration applications.

General Design

- 100% integrity tested during manufacture
- Individual serialized for optimum traceability in critical applications
- Unparalleled flow from a PVDF membrane filter
- Materials of construction are identical to Meissner's portfolio of larger capsule filters, providing seamless scale-up
- Gamma stable and Animal Component Free (ACF)
- Stepped hose barb and sanitary flange process connections

Typical Applications

- Sterile filtration of gases
- Venting of carboys, filling vessels, fermentation tanks, bioreactors, small product or intermediate tanks
- Degassing or sterile purging of culture vessels
- Sterile gas delivery to process equipment, instruments, incubators and culture vessels

Product Specifications

Materials of Construction

Filter Membrane: PVDF (polyvinylidene fluoride)
Downstream Support: PP (polypropylene)
Capsule Housing: PP (polypropylene)
Sealing Method: Thermal Bonding

All materials of construction listed above are animal component free and meet FDA standards for food contact per 21 CFR 177.

Filters comply with European Commission Regulation No. 10/2011. Steridyne® filters meet the requirements as specified in the current USP <88> Class VI plastics and <87> cytotoxicity tests. No binders, adhesives or surfactants are used in the construction of Steridyne® filters. Steridyne® filters are non-fiber-releasing as defined in 21 CFR 210.3(b)(6) and 211.72.

Filtration Ratings

Filter Grade	Pore Size (µm)
VTF	0.2

Integrity Testing

Minimum Bubble Point
18 psi (1.24 bar), 60% IPA/40% water
17 psi (1.17 bar), 70% IPA/30% water

Bacterial Retention

$>10^7$ cfu/cm² retention of *Brevundimonas diminuta*
per ASTM F838

Sterilization

Autoclave: 121 °C to 135 °C (15 to 30 psi, 1 to 2 bar),
30 to 60 minutes, ≥ 3 cycles.
Gamma irradiation: 25 to 40 kGy once.

Do not autoclave irradiated capsules.
Capsules must not be in-line steam sterilized.

Maximum Operating Temperatures and Pressures

32 °F to 100 °F (0 °C to 38 °C)
80 psig @ 100 °F (5.5 bar @ 38 °C)

Effective Filtration Area

19.6 cm²



Ordering Information

Sterile Option	Filter Size	Material Code	Filter Grade	Pore Size (µm)	Inlet/ Outlet Connections	Vent/ Drain Ports
C	B	2	VTF	0.2	33	0
C = Standard (non-sterile)	B = 50 mm vent filter	2 = Animal component free (ACF)	VTF	0.2	33 = Hose barb (1/4"-3/8") inlet/ outlet 3B = Hose barb (1/4"-3/8") with filling bell 73 = 3/4" sanitary (TC) flange inlet & hose barb (1/4"-3/8") outlet 77 = 3/4" sanitary (TC) flange inlet/outlet 7B = 3/4" sanitary (TC) flange inlet with filling bell outlet	0 = No vent/ drain ports 1 = One luer port with cap, inlet side
G = Gamma irradiated						

