

50 mm Vent Filters

0.2 μm Hydrophobic Vent Filters

The Ultradyne[®] 50 and Steridyne[®] 50 vent filters are multipurpose filters for small volume venting, gas and solvent filtration. Designed for bi-directional flow, they serve as a cost-effective, hydrophobic vent for contamination-sensitive materials, for protection of workers from hazardous aerosols, or for laboratory vacuum pump protection.

Designed primarily as a vent, these filters can also be used to filter up to one liter of solvent or solvent-based liquids, and can be pre-wet with alcohol to filter aqueous liquids.

For sterile applications, the Ultradyne[®] 50 and Steridyne[®] 50 filters can be safely autoclaved up to 30 times. Each filter is identified with a part number and heat stamped with a lot number.



General Design

- 100% integrity tested
- Choice of absolute-rated 0.2 μm Ultradyne[®] PTFE membrane or Steridyne[®] PVDF membrane
- Highly hydrophobic membranes
- Polypropylene housing
- Stepped hose barb connections
- Broad chemical compatibility
- Low extractables
- Autoclavable
- Reusable

Typical Applications

- Sterile venting of carboys, filling vessels, fermentation tanks, bioreactors
- Venting of small product or intermediates tanks
- Small volume venting and degassing
- Sterile gas purging of culture vessels
- Sterile gas delivery to instruments, incubators and culture vessels
- Protection of laboratory personnel from vacuum pump exhaust contaminants
- Filter low volumes of aggressive solvents and aqueous solutions
- Protect pump components from liquid damage by using between a pump and receiving vessel

Specifications

Membrane Filter Material

Ultradyne® 50: PTFE on a polypropylene support
Steridyne® 50: PVDF

Pore Size

0.2 µm absolute

Filter Diameter

50 mm

Effective Filtration Area

18 cm²

Housing Material

Polypropylene

Inlet/Outlet

Stepped hose barb
6 - 10 mm (1/4" - 3/8")

Dimensions

Overall length: 65 mm (2.6")
Outer diameter: 56 mm (2.2")

Maximum Operating Pressure & Temperature

3 bar @ 40°C (45 psi @ 100°F)
1 bar @ 80°C (15 psi @ 180°F)

Sterilization

Ultradyne® 50 and Steridyne® 50 filters are provided non-sterile, and can be sterilized by either EtO or autoclaving for a maximum of 30 cycles at 121°C for 30 minutes per cycle. Additionally, Steridyne® 50 filters can be gamma-irradiated and are ideal for venting TepoFlex™ biocontainers. Contact Meissner Technical Services (MTS) for specific recommendations.

Biosafety

All materials are biosafe in compliance with current USP Class VI Plastics biological reactivity tests.

Packaging

Non-sterile - individually bagged

Chemical Compatibility

Ultradyne® 50 and Steridyne® 50 filters are compatible with a wide range of aggressive acids, bases, solvents and gases. When pre-wetted with a low surface tension liquid, they can also be used with aqueous liquids. Contact Meissner Technical Services (MTS) for specific chemical compatibilities.

Usage

Ultradyne® 50 and Steridyne® 50 filters are intended for use in laboratory and research applications only, and are not intended for use as medical devices.

Additional Product Offerings

Meissner manufactures a complete line of 25 mm syringe filters, disc filters/holders, capsules, cartridges, UltraCap® and UltraCap® H.D. disposable filter assemblies, the One-Touch™ family of single-use processing solutions, 316L stainless steel housings, and integrity test instruments.

Ordering Information

Product Description	Pore Size	Housing Material	Qty / Case	Part Number
Ultradyne® 50 mm PTFE vent filter with stepped hose barb connectors	0.2 µm	Polypropylene	25	TM0.2-50-3N
Steridyne® 50 mm PVDF vent filter with stepped hose barb connectors	0.2 µm	Polypropylene	25	VMV0.2-50-3N



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