

# Vent-Rite

## Pleated PTFE Membrane Vent Filter

Vent-Rite hydrophobic filters are sterilizing PTFE membrane filters. Vent-Rite PTFE membrane provides the highest levels of security in demanding air and gas applications.

Vent-Rite PTFE membrane filters are designed to remove microorganisms, particulate and moisture. Strainrite's optimized design ensures exceptional gas flow rate and throughput for the Biopharmaceutical, food and beverage markets. Vent-Rite filters are designed for applications that require particulate security to 0.003 $\mu$ m in gas and air and 0.2 $\mu$ m in liquids. Strainrite delivers value and security with these aerosol validated cartridges.

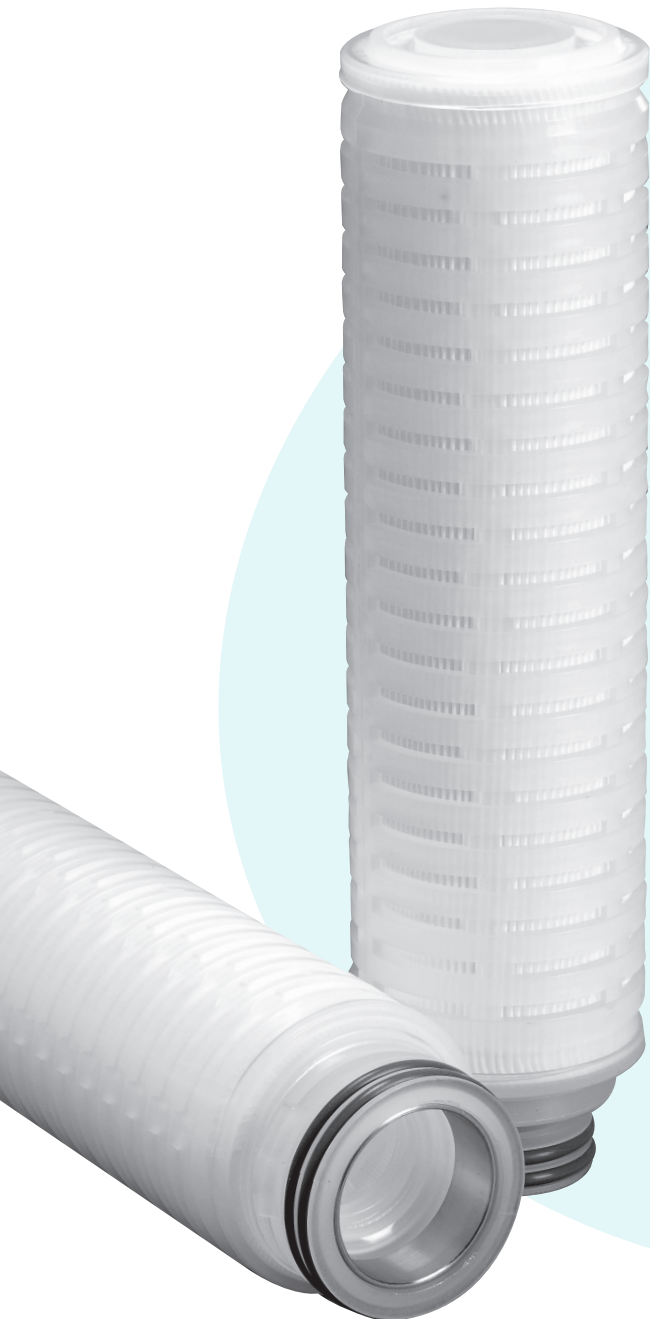
Vent-Rite meets USP Biological Reactivity Test Criteria, is Non fiber releasing, and manufactured to withstand multiple sterilization cycles, when using industry recognized and accepted methods.

### Features and Benefits

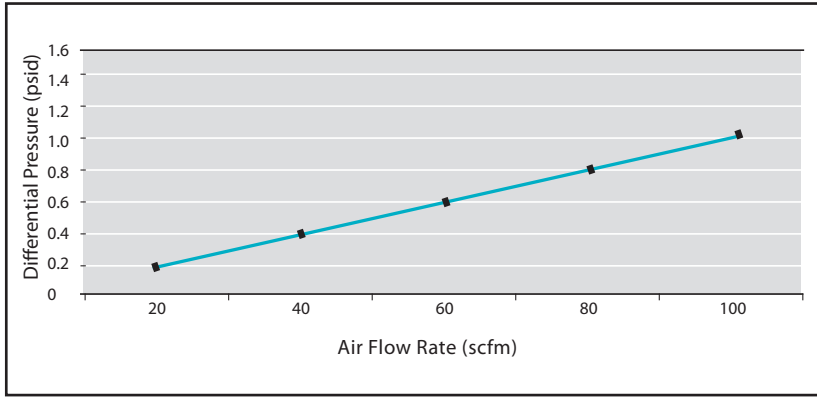
- PTFE membranes
- Inherently hydrophobic media
- 100% integrity tested
- High surface area
- Virus retentive in gasses
- Thermally bonded construction
- FDA listed materials per CFR 21
- Manufactured in a ISO 9001:2008 certified facility
- Water intrusion testable
- Quality control certificate packaged with every filter
- Can be steam sterilized multiple times in situ for longer filter life
- Manufactured in 3<sup>rd</sup> party certified clean rooms

### Typical Applications

Fermenter inlet air and exhaust venting  
Sterile process air  
Sterile venting of tanks.



## Vent-Rite Pressure Drop vs. Air Flow Rate



### Integrity Test Data

All cartridges are integrity tested prior to shipment using pressure decay test method. Values below are for cartridges wetted with 50/50 IPA/Water

Cartridge	Test Pressure	Diffusional Flow
10"	12psi	13mL/min
20"	12psi	26mL/min
30"	12psi	39mL/min

### Sterilization

Vent-Rite cartridges have been validated for bacterial removal in air at an aerosol bacterial challenge level of  $10^7$  *Brevundimonas diminuta* per  $cm^2$ .

## Product Specifications

### Dimensions

Outside Dia: 2.7" (6.87cm)  
 Lengths: 10" (25.4cm), 20" (50.8cm), 30" (76.2cm)

Nominal Surface Area: 8.5ft<sup>2</sup> per 10" equivalent

### Materials of Construction

Filtration Membrane: Polytetrafluoroethylene (PTFE)  
 Support Material: Polypropylene  
 Cage/Core: Polypropylene  
 Hardware: Polypropylene  
 Sealing: Thermal Bonded  
 End Cap Insert: 316 Stainless Steel

### Maximum Forward Differential Pressure

Forward: 75 psid (5.5 bar) @ 75°F (24°C)  
 40 psid (2.8 bar) @ 180°F (82°C)  
 Reverse: 50 psid (3.4 bar) @ 75°F (24°C)

### Maximum Operating Temperature

203°F (95°C) Continuous Duty

### Toxicity

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

### Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

10 inch 24 per carton  
 20 inch 12 per carton  
 30 inch 12 per carton

Cartridge Series ex. VR	Length -10	End Cap Configurations C7	Gasket/O-ring Materials S	Cartridge Grade 2
Vent-Rite	5 10 20 30	C3-SOE flat closed ends, external 222 O-ring C6-SOE flat closed end, external 226 O-ring C7-SOE fin end, external 226 O-ring C8-SOE fin end, external 222 O-ring	S - Silicone (standard O-rings) V - Fluorocarbon	2 - Pharmaceutical