

# VP Series Hydrophobic PTFE Validated Media Vent Filter Cartridge



- Composed of a pleated, hydrophobic, PTFE, Teflon® membrane rated at 0.2 µm absolute for sterile air filtration, storage tank venting applications
- Filter components meet the criteria of the USP Class VI biological test for plastics
- These filters feature minimal pressure loss, long service life due to high void volume, and can be repeatedly steam sterilized or autoclaved
- Bacterial Growththrough - Prevention of bacterial growththrough by Brevundimonas diminuta for at least 21 days @ a challenge level  $\geq 1 \times 10^7$  CFU/cm<sup>2</sup>

## CARTRIDGE SPECIFICATIONS

### Dimensions

Diameter (OD)	.....	2.6" (6.6 cm)
Length (in)	.....	10, 20, 30

### Materials

Cartridge	.....	Polypropylene caps, core and cage
Media	.....	Hydrophobic Teflon® PTFE
Seals	.....	Silicone o-rings and gaskets

### Operating Parameters

Maximum Temperature	.....	Ambient Air
Maximum Differential Pressure @ 21°C	..	72 psi (5.0 bar)
Air Filtration Rating	.....	0.2 µm Absolute
Toxicity	.....	Non-toxic by USP Class VI biological test for plastics
Virus Aerosol Retention	.....	Retention of a worst case challenge of the model bacteriophage Φ X-174 was complete at challenge levels at 10 <sup>8</sup> to 10 <sup>10</sup> virus particles at 1400 sL/min (50scfm) after 50 steam sterilization cycles of 30 minutes at 145°C.

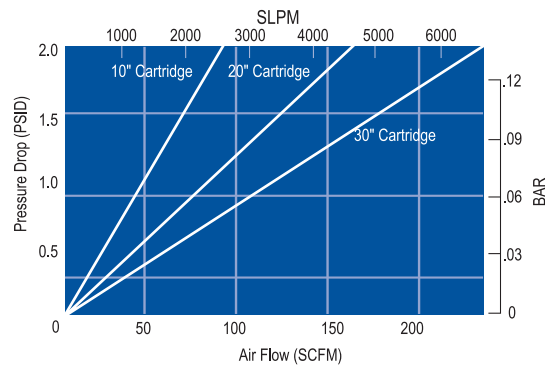
### Sanitizing Agents

Chlorine, hydrogen peroxide, autoclaved for 20 minutes at 121°C under no load conditions.

### Integrity Test

Bubble point @ 23°C	.....	$\geq 13$ psig ( $\geq 900$ mbar) nitrogen with 60/40% IPA/Water
Nitrogen Diffusion @ 23°C	.....	$\geq 45$ mL/min @ 690 mbar (10 psig) in 60/40% IPA/Water

AIR FLOW RATES AT NEAR ATMOSPHERIC PRESSURE (VENT APPLICATIONS)



## ORDERING INFORMATION

### Catalog Number and Description

FCVP	Filter cartridge vent polysulfone
X	Cartridge Code: <b>0</b> = 2-222 o-rings <b>5</b> = 2-222 o-rings w/spear end <b>7</b> = 2-226 o-rings w/locking tabs/spear end
XX	Length (in): <b>10</b> = 10, <b>20</b> = 20, <b>30</b> = 30
S2	Micron Rating: S2 = 0.2 µm

To figure your order number, replace the X with one of the numbered or lettered options beside it. Note: Not all part number combinations are available; consult Technical Support for assistance.

NOTE: These filter cartridges should not be used as a combination air vent/water overflow device.