

# MicroVantage Ultra Premium Filter Series

## MicroVantage™ VGPS Series

Vent Grade Hydrophobic Polysulfone Membrane Filter Cartridge



- Absolute retention ratings at 0.2 microns
- 6.0 square feet (0.56 m<sup>2</sup>) of media surface area per ten inch length for optimal performance
- Highly tapered asymmetric pore structure provides excellent flow rate and dirt holding capacity
- Cost-effective absolute filtration for vent applications - not integrity tested
- Rigid, molded cage protects pleated media and strengthens structural stability
- Manufactured in state-of-the-art white room for high purity
- Complies with Food & Drug Administration's CFR criteria for food & beverage contact.
- Meets USP Class VI Biological Test for plastics
- Available in common and end cap configurations to fit most filter housings
- Produced in standard lengths up to 40 inches

### Applications

Tank Ventilation    Process Gases    Compressed Air

### Specifications and Operating Parameters

**Pore Sizes** 0.2 microns absolute retention

**Nominal Lengths** 9.75" (24.7 cm), 10" (25.4 cm), 20" (50.8 cm), 30" (76.2 cm), 40" (101.6 cm)

**Outside Diameter** 2.67" (6.78 cm)

**Inside Diameter** 1.0" (2.54 cm)

#### Media Surface Area

6.0 sq.ft. (0.56 m<sup>2</sup>) per 10 inches filter length

#### Gaskets/O-rings

Silicone, Buna N, EPR, Viton, Teflon Encapsulated Viton (O-rings only)

#### Materials of Construction

Filter Media: Hydrophobic Polysulfone

Outer Cage Polypropylene

Inner Core: Polypropylene

End caps: Polypropylene

**Maximum Operating Temperature** 176° F ( 80° C)

**Recommended Change-out Differential Pressure**  
35 psid (2.4 bar)

#### Maximum Differential (Collapse) Pressure

Forward: 75 psid @ 70° F (5.2 bar @ 21° C)

Reverse: 40 psid @ 176° F (2.8 bar @ 80° C)

#### Sanitization and Sterilization

Hot water at 175° F (80° C) at 5 psid for 30 minutes

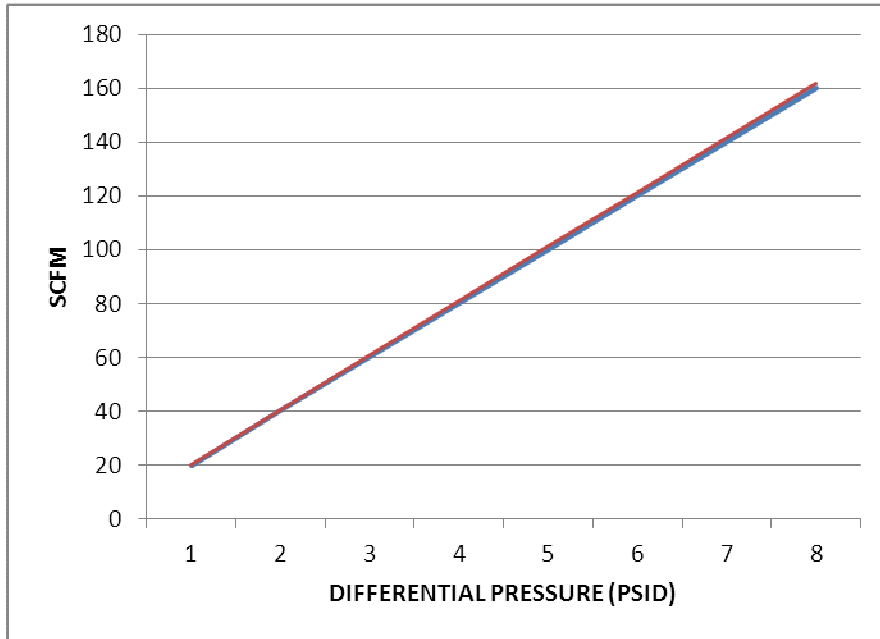
In-line steam at 257° F (125° C) @ 1 psid (0.7 bar) for 30 minutes

Autoclavable at 257° F (125° C) for 30 minutes

#### FDA and USP Compliance

All materials comply with the requirements of Food and Drug Administration Title 21 of The Code of Federal Regulations 174.5, 177.1520 and 177.1630. All components

## Flow vs. Pressure Drop



## Ordering Guide (Example: VGPS0.2-10S4S)

VGPS	0.2	20	S4	S
PRODUCT CODE	MICRON	LENGTH	END CAP CONFIGURATION	GASKET / O-RING
VGPS	0.2	9.75" 10" 19.75" 20" 29.25" 30" 40"	S1 = DOE S3 = 222 w/ Fin End S4 = 222 w/ Flat End S5 = 226 w/ Fin End S6 = 226 w/ Flat End S7 = Internal O-ring with Recessed Plug S9 = Internal O-ring on both ends	B = Buna N E = EPR S = Silicone V = Viton T = Teflon Encapsulated Viton (O-ring only)

## Filter Housings

Shelco manufactures a full line of filter housings. From our rugged single cartridge housings to our heavy duty multi-cartridge housings, Shelco is the perfect choice for your filtration solutions.



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