

SHELCO MicroVantage™ VGPS Series
Vent Grade Hydrophobic Polysulfone Membrane Filter Cartridge

MicroVantage
Ultra Premium Filter Series



- Absolute retention ratings at 0.2 micron
- 6.0 square feet (0.56 m²) 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 & 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 m²) 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)

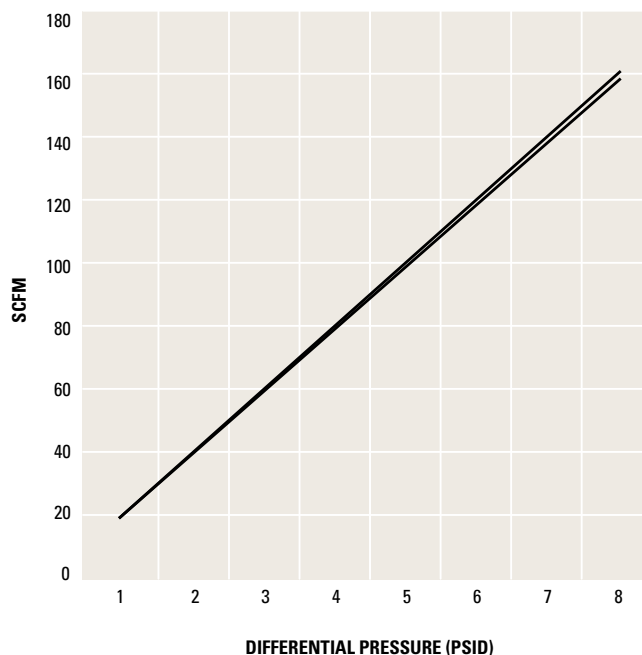
Recommended Change-out Differential Pressure
35 psid (2.4 bar)

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	10	S4	-	S
PRODUCT CODE	MICRON	LENGTH	END CAP CONFIGURATION		GASKET/O-RING
MAN	0.02	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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