

MicroVantage™ HCP Series

High Capacity Polypropylene Pleated Filter Cartridges

MicroVantage

Ultra Premium Filter Series



- 98% Efficiency Polypropylene Pleated Media
- High capacity stable pore structure
- Optimized for retention and excellent flow rates
- Heavy duty components protect pleated media and strengthens structural stability
- Manufactured in state-of-the-art clean room environment for high purity applications
- USP Class VI: Meets USP Class VI Biological Test for Plastics
- FDA Listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, and 177.1520, as applicable for food and beverage contact
- Available in a variety of end cap configurations to fit most filter housings
- Thermal bonded and produced in standard lengths up to 40 inches

Applications

Ink	Paints & Coatings
Adhesives	Beer & Wine Pre-filtration
Cosmetics	CBD Oil
RO Prefilters	

Specifications and Operating Parameters

Pore Sizes

0.2, 0.45, 1, 3, 5, and 10 micron

Nominal Lengths

5" (12.7 cm), 10" (25.4 cm), 20" (50.8 cm), 30" (76.2 cm), 40" (101.6 cm)

Outside Diameter

2.67" (6.78 cm)

Gaskets/O-rings

Silicone, EPR, Viton, Buna, Teflon Encapsulated Viton, Teflon Encapsulated Silicone

Materials of Construction

Filter Media: Polypropylene
Outer Cage Polypropylene
Inner Core: Polypropylene
End caps: Polypropylene

Maximum Operating Temperature

Standard Materials: 176°F (80°C)

Recommended Change-out Differential Pressure

25 – 30 psid (1.72 – 2.07 bar)

Maximum Differential Collapse Pressure

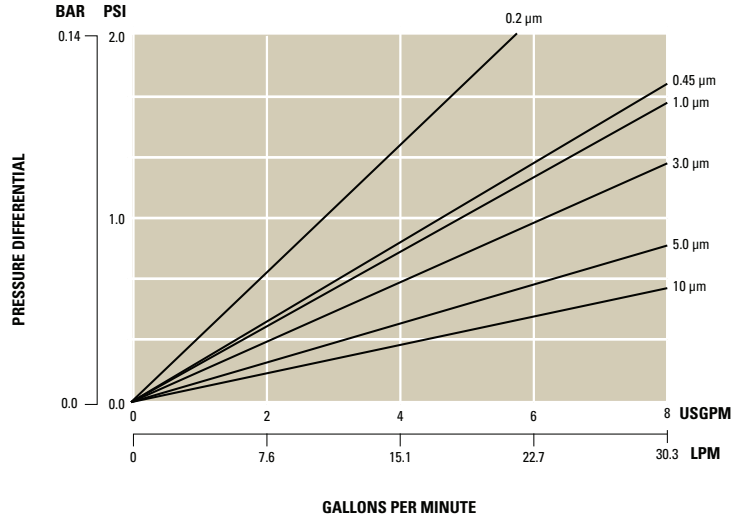
Forward: 70 psid @ 70°F (4.8 bar @ 21° C)
50 psid @ 176°F (3.4 bar @ 80° C)

Sanitization and Sterilization

Hot water at 194°F (90°C) @ max 3 psid for 30 minutes
In-line steam at 257°F (125°C) @ max 3 psid for 30 minutes
Autoclavable at 257°F (125°C) for 30 minutes

Flow vs. Pressure Drop

Typical Flow Rate Clean Water at Ambient Temperature
(per 10" cartridge)



For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoise.

Ordering Guide (Example: HCP5-20S5E)

HCP	5	—	20	S5	E	—	HT
PRODUCT CODE	MICRON	LENGTH	END CAP CONFIGURATION	GASKET/O-RING	OPTIONS		
HCP	0.2 0.45 1.0 3.0 5.0 10	5" 10" 20" 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	S = Silicone E = EPR V = Viton B = Buna T/V = Teflon Encapsulated Viton T/S = Teflon Encapsulated Silicone	*HT = High Temp S = SS Insert Reinforcing Ring		

*Maximum operating temperature 205°F (96°C)

Sanitary Filter Housings & Accessories

Shelco's offers a full line of sanitary & High Purity filter housings and accessories to meet your most critical applications.

