



VH Series Pleated PES Media Pharmaceutical Grade Filter Cartridge

- Cartridge is a validated, pleated polyethersulphone membrane over a non-woven polyester support layer
- Code 0, Code 5, Code 7 and Code 10 configurations are available in 10, 20 30, and 40-in lengths that are 100% tested in manufacturing to ensure absolute bacteria retention
- Materials conform to the relevant requirements of 21CFR Part 177 and current USP Plastics Class VI-121 °C and ISO10993 equivalents
- FCVH Series Sterilizing Grade 0.2 micron filters are validated by bacterial challenge testing to methods specified in ASTM F838-83 (10^7 organisms/cm² minimum) with typical in-house challenge levels being 10^{11} per 10 inch module for Brevundimonas diminuta
- Contain no surfactants or coatings to interfere with your application, and the thermo-plastic construction process minimizes extractables.

SPECIFICATIONS

Dimensions

Diameter (OD)
Length (in)

Materials

Cartridge

Support

Media

Seals

Operating Parameters

Maximum Temperature

Maximum Differential Pressure @ 25°C

Filtration Rating

Toxicity

Validation

Recommended Water Flow Rates

0.1 µm

0.2 µm

0.45 µm

Sanitizing Agents

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

Sterilization

FCVH cartridges can be repeatedly in-situ steam sterilized or autoclaved up to 130°C (266°F). They can be sanitized with hot water at up to 90°C (194°F) and are compatible with a wide range of chemicals.

Integrity Test

Pore Size	Minimum Water Bubble Point	Diffusional Flow (cc/min) @ Test Pressure per 10" length
0.1 µm	≥ 34.2 psig*	≤ 27 @ 70 psig (4.9 bar)
0.2 µm	≥ 49 psig	≤ 16 @ 40 psig (2.7 bar)
0.45 µm	≥ 36 psig	≤ 16 @ 25 psig (1.7 bar)

* 60/40 IPA water test solution

ORDERING INFORMATION

Catalog Number and Description

FCVH	Filter cartridge pharmaceutical/validated
X	Cartridge Code: 0 = 2-222 o-rings 1 = single open end w/internal o-ring 5 = 2-222 o-rings w/spear end 7 = 2-226 o-rings w/locking tabs/spear end
XX	Length (in): 10 = 10, 20 = 20, 30 = 30, 40 = 40
XX	Micron Rating: S1 = 0.1 µm, S2 = 0.2 µm, S4 = 0.45 µm

2.75" (7.0 cm)
10, 20, 30, 40

Polypropylene, core and cage, nylon endcaps
with 316LSS insert

Polyester

Polyethersulphone

Silicone o-rings

176°F (80°C) @ 29 psid (2.0 bard)

72 psi (5.0 bar)

100% Absolute

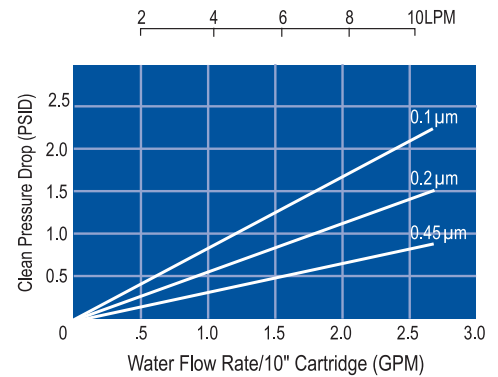
Non-toxic by USP Class VI biological test for plastics
Microbially retentive and validated to ASTM F838-83
methodology

1.8 gpm/10" length (2.3 lpm/10" length)

2.0 gpm/10" length (7.6 lpm/10" length)

3.0 gpm/10" length (11.4 lpm/10" length)

FLOW RATE vs. INITIAL CLEAN PRESSURE DROP



LENNTECH

info@lenntech.com

www.lenntech.com

Tel. +31-152-610-900

Fax. +31-152-616-289

