

## VH SERIES PLEATED PES MEDIA PHARMACEUTICAL GRADE FILTER CARTRIDGE

- Cartridge is a validated, pleated polyethersulphone membrane over a non-woven polyester support layer
- Absolute rated
- 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 with typical reduction of >
  10<sup>7</sup>/cm<sup>2</sup>
- Meet current USP Plastics Class VI biological test for plastics, with a validation certificate available to support the bacteria challenge results
- Contain no surfactants or coatings to interfere with your application, and the thermo-plastic construction process minimizes extractables.
- Supported single layer membrane ensures strength, while exhibiting low pressure drop and exceptionally high flow rates
- These validated cartridges can be sterilized by autoclaving

## **CARTRIDGE SPECIFICATIONS**

Dimensions	
Diameter (OD)	2.75" (7.0 cm)
Length (in)	10, 20, 30, 40
Materials	
Cartridge	Polypropylene, core and cage, nylon endcaps
Media	Polyethersulphone
Seals	Silicone o-rings
Operating Parameters	
Maximum Temperature	158°F (70°C) @ 25 psid (1.7 bar)
Maximum Differential Pressure @25°C	72 psi (5.0 bar)
Filtration Rating	100% Absolute
Toxicity	Non-toxic by USP Class VI Biological Test for Plastics
Validation	HIMA bacterial challenge test methods (10 <sup>7</sup> organisms/cm <sup>2</sup> )
Recommended Water Flow Rates	
0.1 μm	1.8 gpm/10" length (2.3 lpm/10" length)
0.2μm	2.0 gpm/10" length (7.6 lpm/10" length)
0.45 μm	3.0 gpm/10" length (11.4 lpm/10" length)
Sanitizing Agents	
Chlorine, hydrogen peroxide, autoclaved for	20 minutes at 121°C under no load conditions. Hot water sanitizab

Chlorine, hydrogen peroxide, autoclaved for 20 minutes at 121°C under no load conditions. Hot water sanitizable 85°C (185°F) at 10 psid max up to 24 hours

Minimum Water	Diffusional Flow (cc/min) @
Bubble Point	Test Pressure per 10" length
≥ 31 psig*	$\leq$ 27 @ 70 psig (4.9 bar)
≥ 49 psig	$\leq$ 16 @ 40 psig (2.7 bar)
≥ 316psig	≤ 16 @ 25 psig (1.7 bar)
	Bubble Point  ≥ 31 psig*  ≥ 49 psig

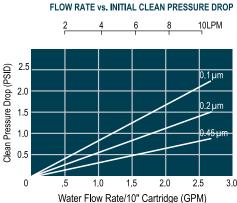
24-Hour Customer Service: +1 (800) 466-7873 www.evoqua.com

the sale, resale or misuse of its products.

All information presented herein is believed reliable and in accordance with accepted engineering practices. Evoqua makes no warranties as to the completeness of this information. Users are responsible for evaluating individual product suitability for specific applications. Evoqua assumes no liability whatsoever for any special, indirect or consequential damages arising from

© 2015 Evoqua Water Technologies LLC Subject to change without notice HPS-FCVH\_CARTRIDGE-SS-1015





## **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): <b>10</b> = 10, <b>20</b> = 20, <b>30</b> = 30, <b>40</b> = 40
XX	Micron Rating: <b>S1</b> = 0.1 μm, <b>S2</b> = 0.2 μm, <b>S4</b> = 0.45 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.