

PV Series Pleated Hydrophilic PVDF Media Pharmaceutical Grade Filter Cartridge



- Cartridge is a validated, pleated hydrophilic PVDF membrane over a non-woven polypropylene support layer
- Code 0, Code 5, and Code 7 configurations are available in 10, 20, 30, and 40-in lengths that are 100% tested in manufacturing to ensure absolute bacteria retention with typical titre reduction of $>10^7/cm^2$
- Quantitative retention of 10^7 CFU/cm² *Brevundimonas diminuta* ATCC® 19146 per ASTM methodology
- Component materials meet the criteria of the USP <88> Reactivity Test for Class VI Plastics. These products meet the requirements of the USP <88> Safety Test, utilizing a 0.9% sodium chloride extraction
- Component materials meet the “non-fiber releasing” criteria as defined in 21 CFR 210.3 (b) (6)
- Will meet the USP Oxidizable Substances Test requirements after a water flush of ≤ 1 L

SPECIFICATIONS

Dimensions

Diameter (OD) 2.75" (7.0 cm)
 Length (in) 10, 20, 30, 40

Materials

Cartridge Polypropylene caps, core and cage
 Media PVDF
 Seals Silicone o-rings

Operating Parameters

Maximum Temperature 176°F (80°C) @ 25 psid (1.7 bar)
 Maximum Differential Pressure @ 25°C 80 psi (5.5 bar)
 Filtration Rating 100% Absolute
 Toxicity Non-toxic by USP Class VI biological test for plastics
 Validation Quantitative Retention of 10^7 CFU/cm² per ASTM methodology

Recommended Water Flow Rates

0.2 µm 1.0 gpm/10" length (3.8 lpm/10" length)

Sanitizing Agents

. Chlorine, hydrogen peroxide

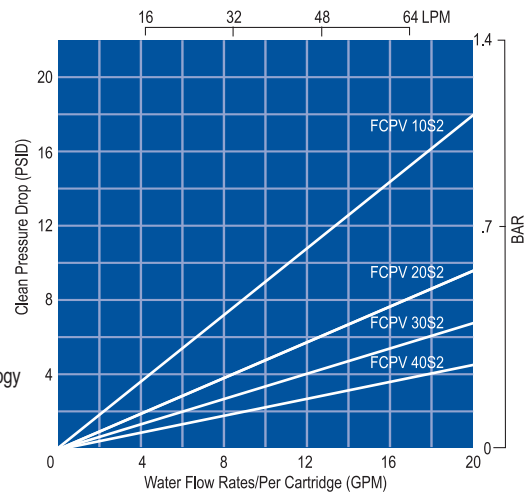
Sterilization

. 30 SIP cycles of 30 min @ 135°C; 30 autoclave cycles of 60 min @ 126°C

Integrity Test

Pore Size Minimum Water Diffusional Flow (cc/min)
 Bubble Point @ 23°C @ Test Pressure per 10" length
 0.2 µm ≥ 50 psig (≥ 3.45 bar) ≤ 13.3 @ 40 psig (3.1 bar)

FLOW RATE vs. INITIAL CLEAN PRESSURE DROP



ORDERING INFORMATION

Catalog Number and Description

FCPV	Filter cartridge pharmaceutical/validated
X	Cartridge Code: 0 = 2-222 o-rings 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
S2	Micron Rating: S2 = 0.2 µm

To determine your catalog 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.