

PVDN Duoflour Series Filter

Hydrophilic PVDF membrane filter

MIF
Masterfilter

Masterfilter PVDN series

Masterfilter PVDN Duoflour series filter cartridges are manufactured from an inherently hydrophilic PVDF membrane that offers a broad chemical and temperature resistance. Characterized by its low protein binding properties, the PVDN series is ideal for bioburden reduction, clarification and sterilization of pharmaceutical and biological solutions.

The PVDN cartridges are available in multiple pore sizes with single-layer PVDF membrane. The membranes are easily wettable and fully integrity testable to meet the pharmaceuticals levels for sterility assurance.



Applications

- Vaccines
- Ophthalmic solutions
- Biotech
- Blood derivatives
- Chemicals API
- Cold and hot WFI
- Sanitizing agents

Features and Benefits

- Inherently Hydrophilic membrane
- Low in protein binding, extractables and non-fibre shedding
- Easily Wettable
- High flowrate with low pressure drop

Materials of construction

- Membrane: Hydrophilic Polyvinylidene fluoride (PVDF)
- Support Layers: Polypropylene
- Inner core: Polypropylene
- Outer cage: Polypropylene
- End caps: Polypropylene
- O-rings: EPDM/Silicone/ Viton

Operating parameters

- Maximum differential pressure:
Forward: 6,9 bar @ 25°C | 4,0 bar @ 60°C | 2,4 bar @ 80°C
Reverse: 3,0 bar @ 25°C | 1,0 bar @ 80°C
- Steam sterilisation: 20 cycles for 30 minutes @ 125 °C (< 0,3 bar, 5 psi) in forward direction
- Autoclave: 30 cycles for 30 minutes @ 125 °C
- Filtration Area 10" Module : 0,58 m²

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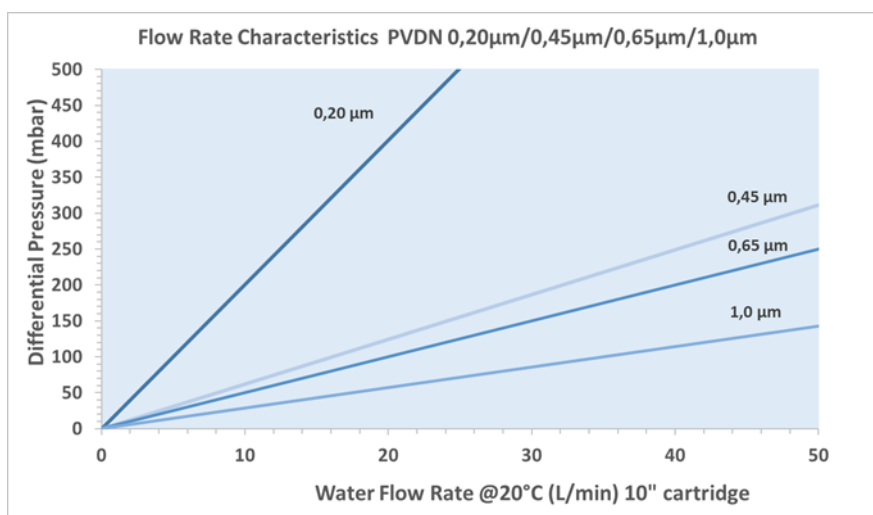
Quality assurance

- Tested with Brevundimonas Diminuta (ATCC 19146) @ 10^7 CFU/cm² according with ASTM-F838
- Cartridge is marked with unique serial number for identification and traceability
- All components meet the criteria for Non-Fibre releasing as defined in 21 CFR 210.3 (b) (6)
- PVDN Duofluor is manufactured under ISO 9001:2015 GMP

Biological standards

- Extraction samples < 0.25EU/mL as determined by the LAL, USP <85>
- Meets the USP <88> Biological Toxicity Reactivity Test in vivo for Class VI-121°C in plastics
- Meets USP <87> in vitro cytotoxicity test and autoclaved filter effluent meets the USP <788> for LVP
- All components meet the FDA indirect food additive requirements cited in 21 CFR 177-182

Flow Rate Characteristics



Part Numbers

PVDN **020** - **10** - **HSF** - **S**

Code	Removal rating µm
010	0,1
020	0,2
045	0,45
065	0,65
100	1,0

Code	Length	
	mm	inch
05	125	5
10	254	10
20	508	20
30	762	30
40	1016	40

Code	End caps
STC	Satorius code 28
HTC	222 O-ring/flat (Code 3)
HTF	222 O-ring/fin (Code 8)
HSF	226 O-ring/fin (Code 7)
HSC	226 O-ring/flat (Code 2)
HSM	Millipore LAGB
HST	MCY4463 (Code 18)
SLV	MCY 4440
SLK	Sealkleen retrofit

Code	O-rings
S	Silicone
E	EPDM
V	Viton

e.g. part number: PVDN020-10-HSF-S

Membrane PVDF filter cartridge, 0,20 µm, 10" length, Code 7 end caps, silicone O-ring