DuoFluor DPVD Series Filter Hydrophilic Double Layer PVDF Membrane Cartridge Filter

Masterfilter PVDN series

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

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

Applications

- Vaccines
- Chemicals and APIs
- Ophthalmic solutions
- Cold and hot WFI
- Biotech
- Sanitising agents
- Blood derivatives

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 double layer polyvinylidene fluoride (PVDF)
- Support layers: Polypropylene
- Inner core: Polypropylene
- Outer cage: Polypropylene
- End caps: Polypropylene
- O-rings: EPDM, Silicone, Viton, FEP/PFA encapsulated

Operating Parameters

- Maximum operating pressure: 6.9 bar at 25 °C, 4.0 bar at 60 °C, 2.4 bar at 80 °C
- Maximum differential pressure forward: 6.9 bar at 25 °C, 4.0 bar at 60 °C, 2.4 bar at 80 °C
- Maximum differential pressure reverse: 3.0 bar at 25 °C, 1.0 bar at 80 °C
- Steam sterilisation: 20 cycles for 30 minutes at 135 °C (< 0.3 bar, 5 psi) forward
- Autoclave: 30 cycles for 30 minutes at 130 °C
- Effective Filtration Area: 0.58 m² 10" module



Quality Assurance

- Retention of 10⁷ cfu/cm² Brevundimonas diminuta (ATCC 19146) according to 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)
- DPVD is manufactured under ISO 9001:2015 GMP

Biological Standards

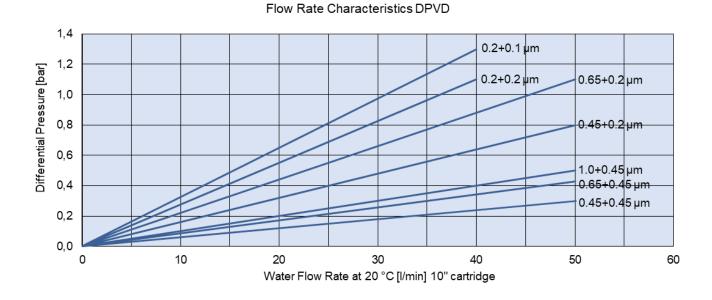
- Aqueous extraction less than 0.25 EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>
- Meets the USP <88> Biological Toxicity Reactivity Test in vivo for Class VI-121°C plastics
- Meets USP <87> in vitro cytotoxicity test and autoclaved filter effluent meets the USP <788> for LVP
- All component materials meet the FDA indirect Food Additive requirements cited in 21 CFR 177-182



Hydrophilic Double Layer PVDF Membrane Cartridge Filter



Flow Rate Characteristics



Part Numbers

DPVD	020	-	10	-		HSF	-	S]
	Code	Removal rating [µm]	Code	Len [mm]	gth [inch]	Code	End caps*	Code	O-rings
	020010	0.2+0.1	05	127	5	STC	Sartorius Code 28	S	Silicone
	020020	0.2+0.2	10	254	10	HTC	222 O-ring/flat (Code 3)	E	EPDM
	045020	0.45+0.2	20	508	20	HTF	222 O-ring/fin (Code 8)	V	Viton
	045045	0.45+0.45	30	762	30	HSF	226 O-ring/fin (Code 7)	Р	FEP/PFA
	065020	0.65+0.2	40	1016	40	HSC	226 O-ring/flat (Code 2)		encapsulated
	065045	0.65+0.45				HSM	Millipore LAGB		
	100045	1.0+0.45				HST	MCY 4463 (Code 18)		
	-					SLV	MCY 4440		

*Other end caps on request

Sealkleen retrofit

SLK

e.g. part number: DPVD020020-10-HSF-S

Double Layer PVDF Membrane filter cartridge, 0.2+0.2 µm, 10" Length, Code 7 end caps, Silicone O-ring

Contact	1 a at a we	14
Contact	wasieri	mer
Contact	maotori	

www.masterfilter.com

info@masterfilter.com