Vangard[®]

99 µm MN-grade Large Capsule Filter (UltraCap® H.D. Model)

Description

The Vangard[®] capsule filter is a nominal-rated PP microfiber filter that provides economical high efficiency filtration of fluids in a wide range of industrial processes. This general purpose filter delivers high flow rates with substantial dirt holding capacity for long service life. Its all-polypropylene construction provides minimal extractables and wide chemical compatibility. The Vangard[®] filter is a cost-effective choice for clarification, prefiltration, and final filtration applications where high-quality output and consistency are important.

Materials of Construction

All components of the filter are either animal free or in compliance with EMA/410/01 Rev. 3 (EDQM 5.2.8 07/2011:50208), and US Code of Federal Regulations 9 CFR 94.18 and 21 CFR 189.5. These materials are listed for food contact use in the Code of Federal Regulations (CFR), Title 21, as below:

Media:	Polypropylene (PP)	CFR Title 21, 177.1520				
Upstream support:	Polypropylene	CFR Title 21, 177.1520				
Downstream support:	Polypropylene	CFR Title 21, 177.1520				
Outer guard:	Polypropylene	CFR Title 21, 177.1520				
Core:	Polypropylene	CFR Title 21, 177.1520				
End caps:	Polypropylene	CFR Title 21, 177.1520				
Capsule housing:	Polypropylene	CFR Title 21, 177.1520				
Sealing method:	Thermal bonding					
Retention Ratings	99 µm					
Effective Filtration Area	5.75 ft² (0.53 m²) per 10"					
Typical Water Flow Rate	< 2 to 10 gpm per 10" length (< 7.5 to 38 L/min)					
Operating Characteristics Operating temperature range:	32 °F to 100 °F (0 °C to 38 °C)					

Operating temperature range:32 °F to 100 °F (0 °C to 38 °C)Maximum temperature rating:140 °F @ 55 psig (60 °C @ 3.8 bar) liquid, @ 35 psig (2.4 bar) gasMaximum operating pressure:90 psig @ 100 °F (6.2 bar @ 38 °C), liquid serviceMaximum reverse pressure:60 psig @ 100 °F (4.1 bar @ 38 °C), gas serviceMaximum reverse pressure:15 psig @ 100 °F (1.0 bar @ 38° C)

Sterilization

Autoclave: 121 to 135 °C (15 to 30 psi, 1 to 2 bar), 30 to 60 minutes, \geq 3 cycles Capsules must not be in-line steam sterilized. Irradiation: 25 to 40 kGy once. Do not autoclave irradiated capsules.

Biological Safety

The Vangard[®] filter complies with European Commission Regulation No. 10/2011. The filter meets requirements as specified in the current USP <88> Class VI plastics, pyrogen and cytotoxicity tests. No binders, adhesives, or surfactants are used in the construction of Vangard[®] filters. The filters are non-fiber-releasing as defined in 21 CFR 210.3(b)(6) and 211.72.

Quality Assurance

Vangard[®] filters comply with the Food and Drug Administration Code of Federal Regulations, Title 21, Parts 210 and 211. Product is manufactured and packaged in a cleanroom facility that, through voluntary compliance, meets or exceeds FDA Good Manufacturing Practice Standards. To ensure product reliability, Meissner's Quality Assurance staff continually audits the manufacturing process for conformance to its Quality Management System. Each Vangard[®] filter is clearly marked with filter type, lot number, and serial number.



Ordering Guide

CR	2 MN	99 - 1	т	00	4					
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Sterile Filter Options						Vent/D	rain F	Ports		
Standard capsule CR					Inline Configuration					
Sterile capsule GR					0	0 No vents/drains				
					2	Vent/drain at inlet a	ind or	ıtlet		
	★				4	Vent/drain at outlet				
Housing Material Designato	r				K	K SPD vent/drain at inlet and outlet				
Gamma-stable polypropylene,	2				L	L SPD vent/drain at outlet				
animal component free (ACF)	2					T-Style C	Configu	uration		
					0	No vent; no drain				
					1	No vent; standard 1/4" drain plug				
					2	Standard vent valve; standa		ndard drain plug		
					3	Standard vent valve				
						3/4" sanitary gage p				
					4	Standard vent valve				
					5	Standard vent valve				
					6	No vent; no drain; ç				
					A	No vent; sanitary d				
					В	Standard vent; san				
					С	Standard vent; san	itary c	Irain valve; gage port		
				•						
						Inlet/Outlet C				
				00		nitary flange	77	3/4" sanitary flange		
				02		nitary flange in " hose barb out	88	3/4" hose barb		
				08		nitary flange in " hose barb out	99	9/16" hose barb		
				09		nitary flange in 6" hose barb out	AA	1/2" male Flaretek®		
				0C	1" sa	nitary flange in	BB	3/4" male Flaretek®		
				0D	1" sa	nitary flange in hose barb out	СС	1/2" hose barb		
				22		hose barb	DD	1" hose barb		
			♦							
			Body Style							
			N Inline configuration T T-style configuration							
						Filter Length				
			1 1()" 2	2	20" 3 30"	4	40" 5 50"		
	*	*								
Product	Grade	Reten	tion Ra	ting						
Vangard [®] polypropylene microfiber media	MN	99 µm								

Additional information about this filter product is available in the Vangard® Green Docs document at www.meissner.com/green-docs.

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