

Bioflo PT

- Intrinsically Hydrophobic PTFE membrane
- Thermic cycles resistant to repeated steam cycles
Repeatedly steamable in situ or in autoclave
- Thermowelded construction
- FDA-listed materials per CFR21
- Bio-Safety per USP-Plastics
- Validation Guide available on request



Bioflo PT is a filter element designed and manufactured to very high quality standards for applications in processes where the filtrate is required to be free from particulate and biological contaminants. The expanded PTFE membrane, intrinsically hydrophobic, allows superior performances both in gas filtration and non-aqueous liquid filtration. Bio-tech pharmaceutical, electronic, food & beverage industries can rely on a product with a high standard of quality suitable to solve contamination issues in critical applications.

Bioflo PT is manufactured within a controlled environment and each cartridge is integrity tested and is validated for bacterial retention correlated with microbiological challenge test. The retention rating is checked by regular sampling.

Materials of Construction

Filter media	PTFE membrane
Upstream supports	Polypropylene
Downstream supports	Polypropylene
Internal Core	Polypropylene
External Cage	Polypropylene
End caps / Adapters	Polypropylene

Food Safety

Bioflo PT filter elements meet regulation (EC) 1935/2004 for indirect food contact.

Bio-Safety

Filter media and components pass USP Biological Reactivity and Chemical-Physical tests for CLASS VI plastics.
Specific for "PH" grade: the filter meets USP "Water for injection" requirements for particle release and the effluent is Non-Pyrogenic per USP Bacterial Endotoxins (< 0.25 EU/ml).

Quality Standards

Produced under a certified Quality System to guarantee traceability of manufacturing records and integrity testing results.

Operating Conditions

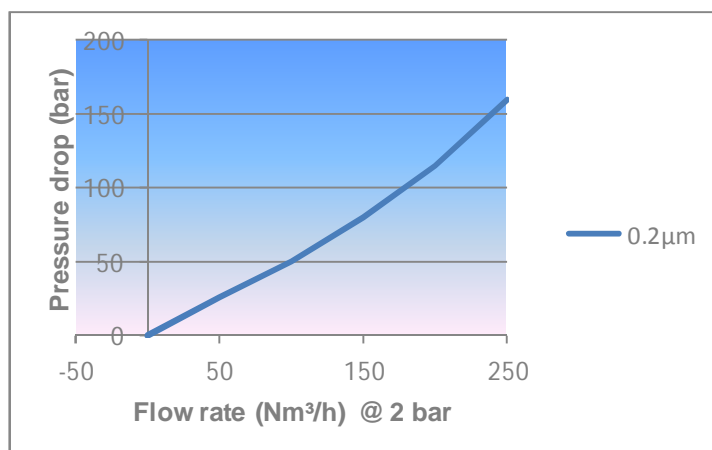
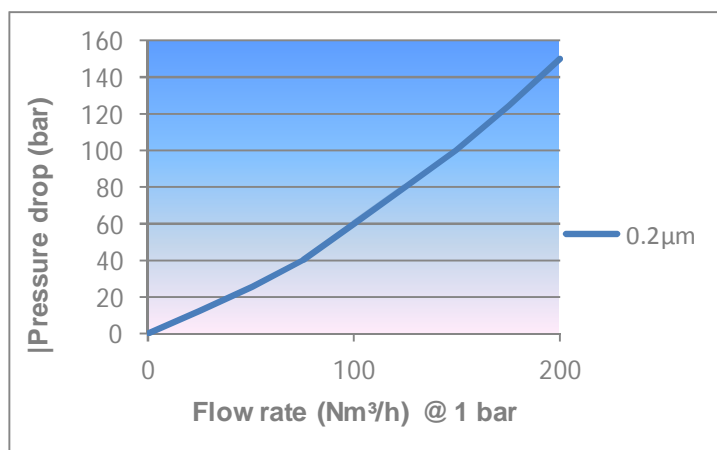
- Maximum continuous temperature is 70°C
- Maximum cumulative time of steam sterilisation is 300 cycles of 30 minutes at 140°C
- Sanitisation with chemicals can be sanitised by standard chemical agents
- Maximum differential pressure is 5.0 bar at 25°C
- Recommended change out differential pressure is 2.0 bar at 25°C

ABSOLUTE FILTRATION RATING		BACTERIAL RETENTION >10 ⁷ CFU/cm ²	ACCEPTABLE LIMIT FOR INTEGRITY TEST
IN LIQUID	IN DRY GAS		
0.2µm	< 0.01µm	Bacteriophage T1 in aerosol	1) ≤ 10 ml/min @ 0,8 bar 2) ≤ 16 Nm ³ /10min @ 2,5 bar

Note:

- 1- The integrity is verified by DIFFUSION TEST using an aqueous solution of isopropyl alcohol (IPA 60/40 V/V) as wetting liquid.
- 2- The integrity is verified by WATER FLOW INTRUSION TEST (data available on request)
- 3- Cartridges are validated for retention of the microorganism reported in the table according to ASTM F838-05.

Air Flow Rate for 10" Cartridge



Ordering Guide

Name	Micron Rating	Nominal Length	End Cap Type	Seal Type	Special
Bioflo PT	0.2µm	5	03	S - Silicone	PH - Biological Non Pyrogenic grade FB - Food and Beverage Grade
		10	04-DOE	V - Vitron	
		20	07	T - Teflon	
		30	08		
		40	28		

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