

# Bioflo TS

- Easy integrity testing in situ
- Repeatedly steamable in situ or in an autoclave
- Sanitisable by standard chemical agents
- Thermowelded construction
- EC-listed materials for Food contact
- FDA-listed materials per CFR21
- Bio-Safety per USP - Plastics



The Bioflo TS cartridge is a final sterilising filter for general applications in the pharmaceutical and food & beverage industries.

The Bioflo TS cartridges have liquid absolute filtration ratings from 0.1 micron to 0.65 micron; 0.1 micron and 0.2 micron are available with single and double membrane layers.

Manufacturing is completed in a controlled environment. Each cartridge is integrity tested and the limits of acceptability are monitored on a regular basis by the bacteria challenge test.

## Materials of Construction

Filter media	Asymmetric PES membrane
Upstream supports	Polyester
Downstream supports	Polyester
Internal Core	Polypropylene
External Cage	Polypropylene
End caps / Adapters	Polyester

## Food Safety

BiofloTS filter elements meet (EU) regulation 10/2011 and its subsequent amendments and regulations (EC) 1935/2004 and 1895/2005.

## Bio Safety

Filter media and components pass USP Biological Reactivity and Chemical-Physical tests for Class VI plastics.

## Quality Standards

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

## Operating Conditions

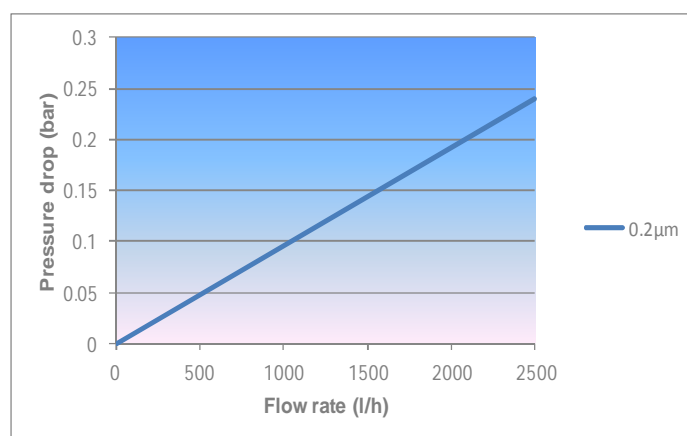
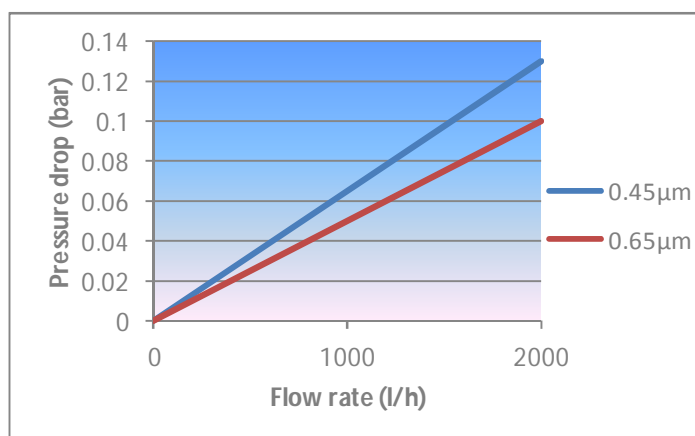
- Maximum continuous temperature of 65°C
- Maximum cumulative time of steam sterilisation is 26 cycles of 30 minutes at 125°C
- Sanitisation with hot water at 80°C maximum
- Sanitisation with chemicals - can be sanitised by standard chemical agents
- Maximum differential pressure is 5 bar at 25°C - 1.7 bar at 80°C
- Recommended rinse up volume of 3 litres / 10" cartridge

ABSOLUTE FILTRATION IN LIQUIDS	BACTERIAL RETENTION >10 <sup>7</sup> CFU/cm <sup>2</sup>	ACCEPTABLE LIMIT FOR DIFFUSER WITH WATER FOR 10" DIFFUSER (ml/min)
0.1µm double membrane	Acholeplasma laidlawii	≤ 20 @ 3.5 bar
0.1µm	Acholeplasma laidlawii	≤ 20 @ 3.5 bar
0.2µm double membrane	Brevundimonas diminuta	≤ 16.5 @ 2.3 bar
0.2µm	Brevundimonas diminuta	≤ 16.5 @ 2.3 bar
0.45µm	Serratia marcescens	≤ 13 @ 1.7 bar
0.65µm	N.A	≤ 20 @ 1.1 bar

\* as per ASTM F838-05

For PH option, test data may be different from the value indicated. Please refer to technical service

## Water Flow Rate for 10" Cartridge



## Ordering Guide

Name	Micron Rating	Nominal Length	End Cap Type	Seal Type	Special
Bioflo TS	0.1µm	5"	03	E - EPDM	Dbl - Double layer membrane (0.1µm & 0.2µm)
	0.2µm	10"	04 - DOE	T - Teflon	
	0.45µm	20"	07	S - Silicone	PH - biopharm option
	0.65µm	30"	08		
		40"	28		

V1-08/14



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