

FBT Cartridge Filter

Provides safe, sterile filtration for air and gas food and beverage applications.

FBT Cartridge filters are constructed of polypropylene components and a hydrophobic polytetrafluoroethylene (PTFE) membrane, 100% integrity tested before released. They are designed to provide safe and sterile filtration for air and gas applications in the food and beverage industry.

APPLICATIONS

- Venting
- Sterile filtration of air and gas

FEATURES & BENEFITS

All components meet USP<88> ,21CFR and Commission regulation for food contact materials	Provides biosafety insurance and global regulatory compliance
Sterilizing-grade meets Bacterial Challenge Test ASTM F838	Safety sterile filtration for air and gas applications
Excellent robustness and integrity maintained after multiple cycles of SIP at higher temperature and longer time	Ensures high quality for sterility assurance and longer service life even at extremely demanding applications

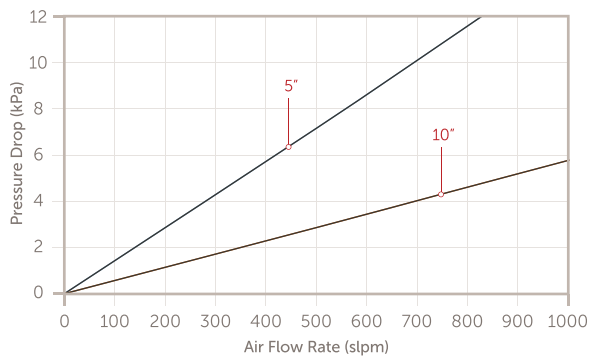


Ensures high-quality, sterility assurance

SPECIFICATIONS

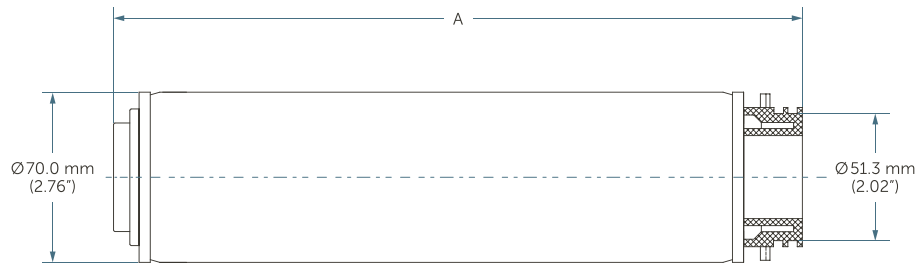
Retention rating	0.22 μm	
Materials	Media	Polytetrafluoroethylene (PTFE)
	Support	Polypropylene
Filtration area	$\geq 0.58 \text{ m}^2$ @ 10", $\geq 0.28 \text{ m}^2$ @ 5"	
Integrity test (0.22 μm)	Minimum bubble point @ 60 isopropanol water at 25°C (77°F)	$\geq 1155 \text{ mbar}$
	Minimum bubble point @ 95% ethanol water at 25°C (77°F)	$\geq 1100 \text{ mbar}$
	Water intrusion at 2620 mbar 25°C (77°F)	$\geq 1.0 \text{ ml/min}$ @ 5", $\leq 1.4 \text{ ml/min}$ @ 10"
Maximum operating conditions	Maximum forward differential pressure	5 bar @ 25°C (77°F), 2.0 bar @ 80°C (176°F)
Sterilization cycles	Maintained integrity after 50 cycles of steam-in-place (SIP) sterilization, 60 min at 137°C (279°F)	
Material toxicity	All components meet the requirements of USP<88> Reactivity Test for Class VI Plastics	
	Filters meet the requirement of USP<87> Biological Reactivity Tests in Vitro cytotoxicity	
Animal Free	Meets the EU directive for animal free CPMP EMA/410/01 and 21 CFR parts 189.5	
Bacterial challenge test	Passed the bacterial challenge test using <i>Brevundimonas diminuta</i> (ATCC 19146) at a minimum challenge concentration $1 \times 10^7 \text{ CFU/cm}^2$ (0.22 μm) per ASTM F838	
Indirect food additive	Meets the FDA Indirect Food Additive requirements cited in 21 CFR 177	
Food contact material	Meets the Regulation (EU) No. 1935 /2004	
Quality	Manufactured in accordance with ISO 9001 and ISO 13485 certified quality management system	

PERFORMANCE DATA



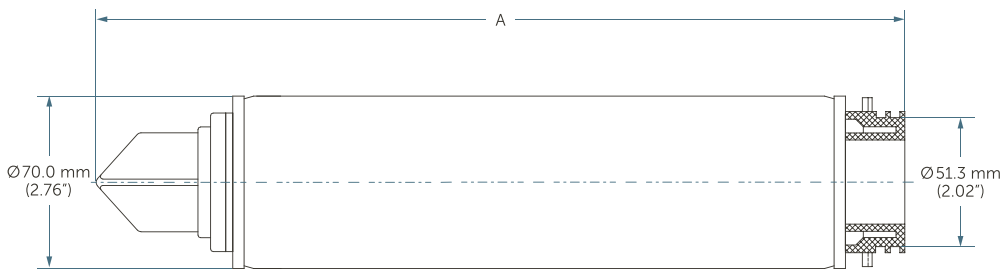
DRAWINGS

Code 6



Length	Code 6 (A)
5"	150.5 mm (5.9")
10"	276.0 mm (10.9")
20"	520.0 mm (20.5")
30"	764.5 mm (30.1")

Code 7



Length	Code 7 (A)
5"	–
10"	316.5 mm (12.5")
20"	561.0 mm (22.1")
30"	805.5 mm (31.7")

ORDERING INFORMATION

PART NUMBER	CONNECTION	LENGTH	O-RING	RETENTION RATING
FBT022605S1	Code 6	5"	Silicone	0.22 µm
FBT022610S1	Code 6	10"	Silicone	0.22 µm
FBT022620S1	Code 6	20"	Silicone	0.22 µm
FBT022720S1	Code 7	20"	Silicone	0.22 µm
FBT022730S1	Code 7	30"	Silicone	0.22 µm

FOR MORE INFORMATION

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