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HIGH FLOW TETPOR II filter elements are validated as sterilizing-grade filters for air and gas applications in accordance with ASTM requirements.

The multi-layer filter medium consists of an outer upstream protective fleece combined with a downstream support mesh. This construction provides significant advantages by enhancing membrane protection, extending service life, and ensuring that no fibers are released into the process.

Key Features

- Optimized pleated filter media
- Steam sterilizable for up to 225 cycles
- Compatible with all common integrity test methods: Aerosol; Diffusional Flow; Water Intrusion Test (WIT)
- Hydrophobic PTFE membrane
- High flow rates with low initial differential pressure

Performance Specifications

- **Integrity**
All filter elements are integrity tested by the Diffusional Flow method prior to shipment. The integrity values shown in the Integrity Test Data table apply to filter elements wetted with a 60/40 IPA/water solution.
- **Food Contact Compliance**
All materials used comply with the applicable requirements of FDA 21 CFR Part 177 and USP Plastics Class VI at 121 °C.
- **Sterilization**
HIGH FLOW TETPOR II filter elements are steam sterilizable for up to 225 cycles at 142 °C.
- **Bacterial Retention**
HIGH FLOW TETPOR II filter elements are fully validated as sterilizing-grade filters for compressed air and gas applications. They exceed the ASTM-recommended bacterial challenge levels for liquid bacterial retention testing. In addition, the filter elements have been validated by bacterial aerosol challenge testing and MS-2 bacteriophage challenge testing.

TECHNICAL DATA

Filter medium:	PTFE
Support layers:	Polypropylene
Core:	Outside: Polypropylene Inside: Stainless steel 316L
End caps:	Polypropylene
End cap insert:	Polysulfone
Micron rating:	0,01 µm
Gaskets:	Silicone
Differential pressure:	Max. 3,5 bar @ 60 °C

INTEGRITY TEST

Element	Test pressure	Diffusional Flow
D	0,8 bar	0,6 ml/min
B		2,8 ml/min
A		5,6 ml/min
K		7,7 ml/min
10"		16,5 ml/min
20"		33,0 ml/min
30"		49,5 ml/min

Order information

ZHFT/

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Length	
D	1,5" 35 mm
B	2,5" 65 mm
A	5" 125 mm
K	5" 125 mm
1	10" 250 mm
2	20" 500 mm
3	30" 750 mm

Adapter Cartridge	
C	P-7
P	BIO-X Retrofit
H	UF Retrofit

Adapter Demi	
H	UF Retrofit
T	TRUESEAL
Y	Demi MCY
Z	Demi A & B Std

Gasket	
E	EPDM
P	Silicone, PTFE coated ¹
S	Silicone
V	Viton

Order example: ZHFT/3C-S

¹not available for length D

