

HF TETPOR H.T. Filter Cartridges

- air / gas filters
- expanded PTFE

HIGH FLOW TETPOR H.T. gas sterilisation filter cartridges provide unrivalled performance in process industry applications where continuous cartridge operation of up to 100 °C (212 °F) is a requirement.

Applications include specific biological fermentations which use high inlet air temperatures and heated vent filters on storage tanks whose contents are at elevated temperatures >80 °C (176 °F), e.g. WFI tanks.

HIGH FLOW TETPOR H.T. cartridges utilise a proven inherently hydrophobic, expanded PTFE membrane with an absolute removal rating of 0.01 micron. This ensures the removal of all airborne bacteria, viruses and bacteriophage. Nomex membrane support layers facilitate continuous operation at temperatures up to 100 °C (212 °F).

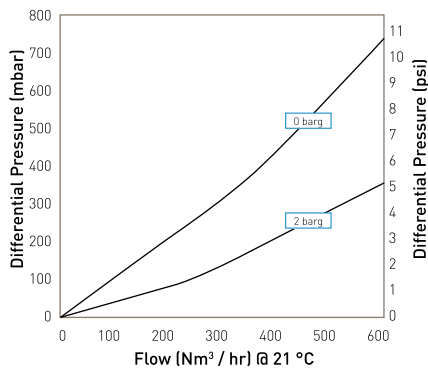
Features and Benefits

- Long service life even at elevated temperatures 100 °C (212 °F)
- Assured biosecurity with absolute rated filtration
- Stainless steel inner core
- Steam sterilisable to 142 °C (287 °F)
- Exceptionally high flow rates with low pressure drops



Note: TETPOR is a registered trademark of Parker domnick hunter

Performance Characteristics



10'' Size (250 mm) Cartridge

Specifications

Materials of Construction

- Filtration Membrane: Expanded PTFE
- Upstream Support: Nomex*
- Downstream Support: Nomex*
- Inner Support Core: 316L Stainless Steel
- Outer Protection Cage: Heat Stabilised Polypropylene
- End Caps: Heat Stabilised Polypropylene
- End Cap Insert: Stainless Steel
- Standard o-rings: Silicone

*Nomex is a registered trademark of E.I. du Pont de Nemours and Co Inc

Food and Biological Safety

Materials conform to the relevant requirements of 21CFR Part 177, EC1935 / 2004 and current USP Plastics Class VI - 121 °C and ISO10993 equivalents.

Recommended Operating Conditions

The maximum differential pressure in direction of flow (outside to in) is 3.5 barg (50.76 psig) at 100 °C (212 °F).

The maximum recommended continuous operating temperature is 100 °C (212 °F).

Effective Filtration Area (EFA)

10" (250 mm) 0.9 m² (9.8 ft²)

Sterilisation

HIGH FLOW TETPOR H.T. cartridges can be in situ steam sterilised for up to 120 cycles at 142 °C (287.6 °F).

Retention Characteristics

HIGH FLOW TETPOR H.T. cartridges have been fully validated as sterilising grade filter cartridges, for compressed air and gas applications. They exceed liquid bacterial challenge levels as recommended by ASTM+. In addition, HIGH FLOW TETPOR H.T. is further validated by aerosol bacterial challenge testing.

+ASTM American Society for Testing and Materials

Integrity Test Data

All cartridges are integrity tested prior to despatch by the pressure decay and aerosol challenge test methods. Values are for cartridges wetted with 60 / 40 IPA / Water.

Micron Rating		0.2
Diffusional Flow	(barg)	0.80
Test Pressure	(psig)	11.6
Minimum Bubble Point	(barg)	1.00
	(psig)	14.5
Max. Diffusional Flow (10 ⁻¹)		16.0
	[ml / min]	

Ordering Information

ZCHT / -

Code	Length (Nominal)	Code	Endcap (10")	Code	Variant	Code	O-rings
1	10" (250 mm)	C	BF / 226 Bayonet	N	Nomex	E	EPDM
2	20" (500 mm)	P	BIO-X Retrofit			P	FEP Encapsulated
3	30" (750 mm)					S	Silicone
						V	Viton