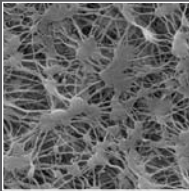


HIGH FLOW TETPOR II

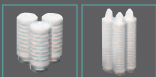


- Optimum pleat configuration
- Integrity testable by all methods including Water Intrusion Test
- Absolute rated filtration
- Unrivalled flow rates combined with low pressure drops
- Steam sterilisable up to 225 cycles at 142°C (287°F)
- Fully validated to aerosol bacterial and viral challenge



HIGH FLOW TETPOR II gas sterilisation filters have been developed to benefit from technological advances within the manufacture of PTFE membranes. This new generation of filter sets the standard with an unrivalled combination of efficiency, flow rate and strength. The HIGH FLOW TETPOR II will provide full retention of bacteria, viruses and particulate in process air and gas streams while providing exceptional flow rates. Subtle changes to the structure of the PTFE have also resulted in the production of an extremely robust product now validated for 225 steam sterilisation cycles @ 142°C (288°F). The combination of non-woven supports upstream of the membrane and an expanded net layer downstream has significant benefits. It provides increased protection and service life while guaranteeing zero fibre shedding into the process. The Demi HIGH FLOW TETPOR II is suitable for all sterile gas applications including fermentation inlet and off gas streams, venting, lyophilisers, autoclave vacuum breaks and blow-fill-seal equipment as well as the provision of particle free air within the electronics industry.

available formats



Technical Specifications

Materials of Construction

Filtration Membrane	:	Polytetrafluoroethylene PTFE
Upstream Support	:	Polypropylene
Downstream Support	:	Polypropylene
Inner Support Core	:	316L Stainless Steel
Outer Protection Cage	:	Polypropylene
End Caps	:	Polypropylene
End Caps Insert	:	Polysulphone
Standard o-rings / gaskets	:	Silicone

Food and Biological Safety

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

Retention Characteristics

HIGH FLOW TETPOR II 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 II is also validated by aerosol bacterial and *MS-2 Coliphage* challenge testing. A full validation guide is available upon request.

⁺ASTM American Society for Testing and Materials

Recommended Operating Conditions

The maximum differential pressure in direction of flow (outside to in) is 3.5 bar (50 psi) at 60°C (140°F). The maximum recommended continuous inlet air temperature is 60°C (140°F).

Note: HIGH FLOW TETPOR II cartridges can be used as WFI vents in heated housings if changed on a 4-6 monthly basis.

Sterilisation

HIGH FLOW TETPOR II cartridges can be in situ steam sterilised for up to 225 cycles at 142°C (288°F).

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.

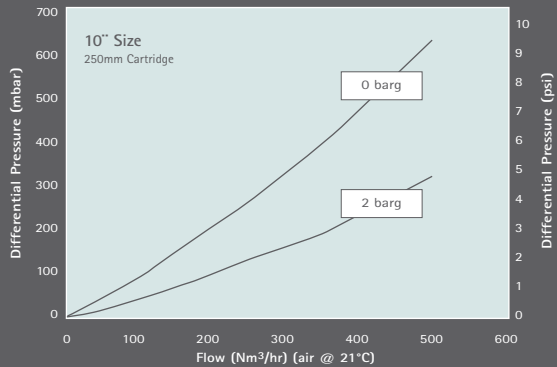
Cartridge	Test Pressure		Diffusional Flow (ml/min)	Water Intrusion Test Pressure (bar)	Water Intrusion (ml/10min)	Water Flow (µl/10min)
	(bar)	(psi)				
D	0.8	11.6	0.6	2.5	N/A	N/A
C	0.8	11.6	1.1	2.5	N/A	N/A
B	0.8	11.6	2.8	2.5	2.3	657
A	0.8	11.6	5.6	2.5	4.6	1314
K	0.8	11.6	7.70	2.5	6.4	1829
10"	0.8	11.6	16.50	2.5	13.5	3857
20"	0.8	11.6	33.00	2.5	27.0	7714
30"	0.8	11.6	49.50	2.5	40.5	11571

Pharmaceutical Validation

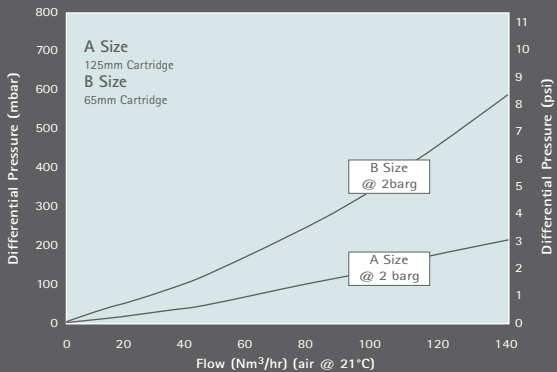
A full validation guide is available upon request with Lab Services Group (LSG) support for specific individual requirements.

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Cartridge Flow Rates



Flow rates for other sizes available upon request



Flow rates for other sizes available upon request

Cartridges

ZHFT / —

Code	Nominal Length (mm)	(inch)	Code	End Cap	Code	O-rings
D	35	1.5	C	BF/226 bayonet	E	EPDM
C	65	2.5	P	BIO-X Retrofit	P	PTFE
B	65	2.5	H	UF Retrofit	V	Viton
A	125	5	T	TRUESEAL	S	Silicone
K	125	5	W	HF Demi C & D		
1	250	10	Y	Demi Stub A & B Std		
2	500	20	Z	Demi A & B Std		
3	750	30				



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Publication Reference: PD11/05 Rev 2A

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