



Filtros HIGH FLOW TETPOR® II

Filtros de aire y gas de PTFE expandido
mejorado

Filtros de esterilización de gas HIGH FLOW TETPOR® II desarrollados con los nuevos avances de tecnología en la manufactura de membranas de PTE expandido

Esta nueva generación de filtros cuenta con una eficiencia, tasa de flujo y resistencia excepcionales en la industria.

Los filtros HIGH FLOW TETPOR® II están validados como filtros esterilizantes de 0,2 μ para líquidos según el estándar ASTM F838-05 y 0,1 μ según el test de retención de aerosol para MS2 phage. Esto garantiza que el filtro HIGH FLOW TETPOR® II mantendrá la esterilidad del proceso incluso en los peores casos en los que el filtro entra en contacto con grandes cantidades de líquido debido a problemas en el proceso.

Se han realizado pequeños cambios en la estructura del PTE hidrofóbico que resultan en la producción de un producto extremadamente resistente validado para hasta 255 ciclos de esterilización por vapor @ 142 °C (287,6 °F).

Regulaciones

- Los materiales se ajustan a la regulación actual de USP Plastics Class VI – 121 °C y equivalentes ISO10993

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Principales Beneficios

- Membrana hidrofóbica de PTE con altas tasas de flujo que previene el cegamiento de la membrana en condiciones de alta humedad
- Totalmente validada según ASTM 838-05 para bacterias líquidas y según test de retención de aerosol y viral
- Protección del producto incrementada gracias al flujo estéril en entornos de alta humedad
- Se puede esterilizar con vapor hasta 225 a 142 °C (287 °F)
- Bajas caídas de presión
- Larga vida útil incluso bajo condiciones agresivas de funcionamiento

Aplicaciones

- Materiales aptos para la esterilización de gases en aplicaciones de la industria alimentaria

Aplicaciones Técnicas Maquinsa, S.L. dispone de una zona de manipulación bajo norma ISO 9001/2015 y en la que se manipulan los materiales bajo las norma BPF (GMPs).

Bajo demanda podemos fabricar y manipular nuestros productos en sala blanca bajo norma. Nuestras plantas pueden ser auditadas a su requerimiento.

Relacionados



Sensores Parker
SciLog®



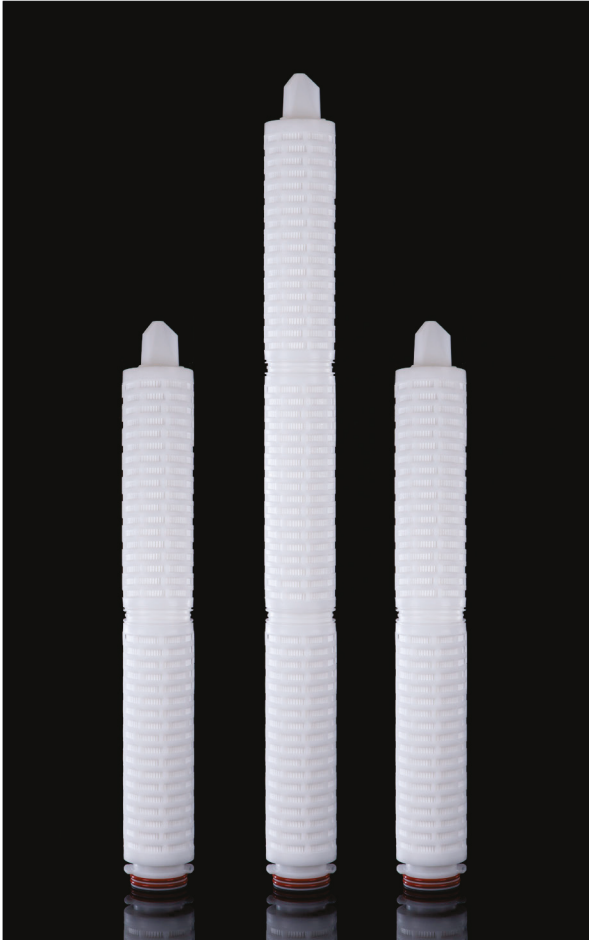
Sistemas de Laboratorio
Automáticos



Carcasas para Filtros
Parker

HIGH FLOW TETPOR II

Filter Cartridges



HIGH FLOW TETPOR II gas sterilization 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 is validated as a 0.2 micron sterilizing grade filter in liquids through ASTM F838-05 and 0.01 micron in gas through full retention to an aerosol challenge of MS2 phage. This ensures the filter will guarantee the sterility of your process in the worst-case scenario where the filter may be subjected to bulk liquid due to a process problem. Subtle changes to the structure of the hydrophobic PTFE have also resulted in the production of an extremely robust product now validated for 225 steam sterilization cycles @ 142 °C (287.6 °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.

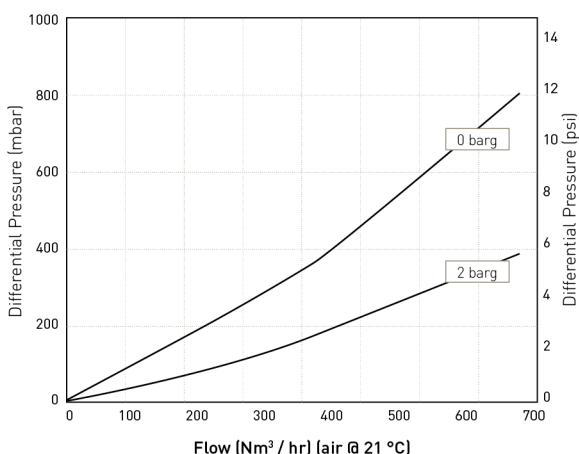
Features

- Highly hydrophobic PTFE membrane
- Fully validated to ASTM 838-05 liquid bacterial challenge
- Fully validated to aerosol & viral challenge
- Unique high flowing PTFE membrane
- Can be in-situ steam sterilized for up to 225 cycles at 142°C

Benefits

- Prevents membrane blinding during high humidity conditions
- Provides sterile effluent in high humidity environments and increased product protection
- Increased energy savings due to reduced pressure loss
- Long service life under aggressive processing conditions

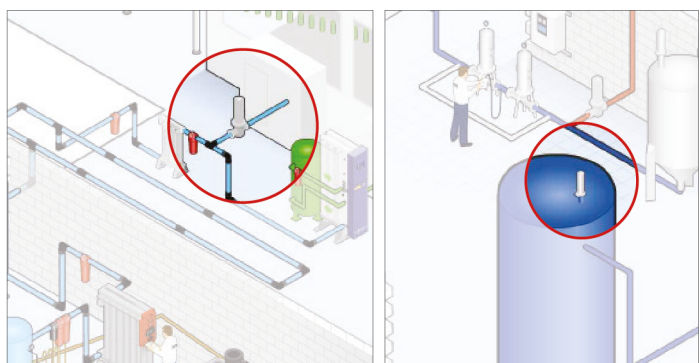
Performance Characteristics



For A size filter, multiply dP by factor of 3 at same flow

Filtration Stage

Sterile Gas and Vent Filtration





Specifications

Materials of Construction

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

Food and Biological Safety

Parker domnick hunter's range of HIGH FLOW TETPOR II filters are intended for indirect food contact and as such are manufactured from materials suitable for the sterilization of compressed gasses within Food and Beverage applications. Materials conform to the relevant requirements of the United States FDA 21CFR part 177 and USP Plastics Class VI – 121°C and ISO 10993 equivalents.

Recommended Operating Conditions

The maximum differential pressure in direction of flow (outside to in) is 3.5 barg (50.76 psig) 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.

Sterilization

HIGH FLOW TETPOR II cartridges can be in situ steam sterilized for up to 225 cycles at 142 °C (287.6 °F).

For detailed operational procedures and advice on cleaning and sterilization, please contact the Technical Support Group through your usual Parker domnick hunter contact.

Retention Characteristics

HIGH FLOW TETPOR II cartridges have been fully validated as 0.2 micron sterilizing 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.

+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.

Cartridge	Test Pressure (barg) (psig)		Diffusional Flow (ml / min)
D	0.8	11.6	0.6
C	0.8	11.6	1.1
B	0.8	11.6	2.8
A	0.8	11.6	5.6
K	0.8	11.6	7.70
10"	0.8	11.6	16.50
20"	0.8	11.6	33.00
30"	0.8	11.6	49.50