

PORE FILTRATION

PUREPORE GF GAS FILTER

PurePore GF Gas offers the longest service life for sterile gas cartridges used in compressed gas, tank venting or autoclave applications.

PurePore GF Gas filter range combines established depth filter technology, with a pleated high surface area construction, and sterile filtration to 0.02 micron in gas. These sterile gas cartridges contain pleated borosilicate glass fibre media, which is surface modified with fluoropolymer to provide excellent hydrophobic properties, allowing operation in applications that have small amounts of condensate contamination.

Flow rates of PurePore GF Gas are typically 2-3 times that of PTFE membrane filters, such as SurePore PTFE Gas, either dramatically reducing cartridge usage or installation size for sterile gas applications in fermentation, food and beverage or vacuum break applications, such as autoclaves and lyophilisers.

All cartridges are thermally bonded and adhesive free to provide a robust filter.



TECHNICAL DETAILS

Filter Medium	Surface modified borosilicate microfibre
Filter Hardware	Polypropylene support layers, core (st.st core option) and cage
Endcaps	A range of endcaps available to allow retrofitting of existing housings
Retention	Absolute sterilising grade – Validated by bacterial aerosol and viral challenge
Micron rating range	0.02µm in gas (condensate free)
Available formats	Cartridge, Junior, and capsule



TYPICAL APPLICATIONS

TANK AND VESSEL VENTING

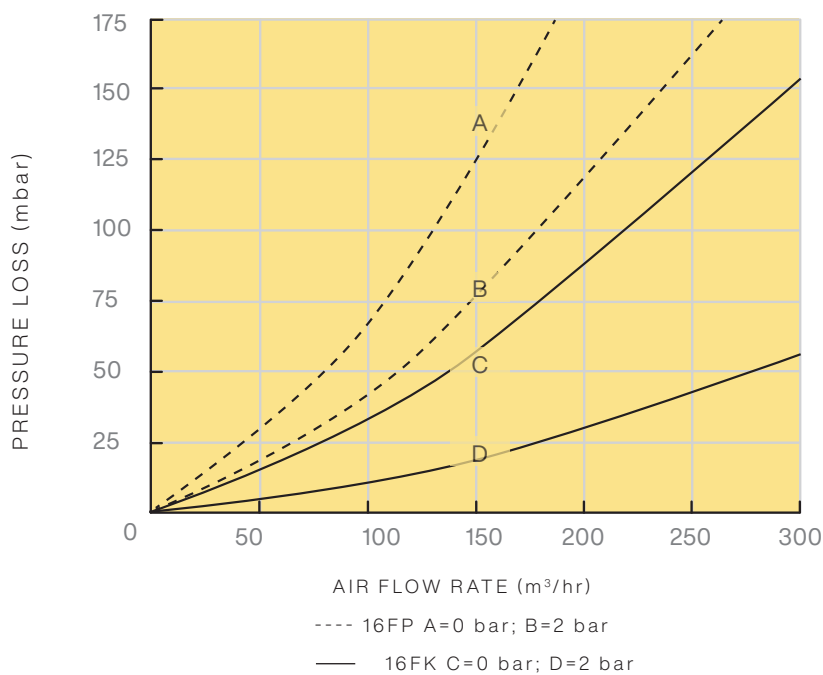
FERMENTATION INLET GAS/
OFF-GAS FILTRATION

COMPRESSED AIR/ GAS
FILTRATION

AUTOClave/ LYOPHILISER
VACUUM BREAK

GASES USED IN FILLING
AND BOTTLING EQUIPMENT

AIR FLOW RATES (10")



DIMENSIONS		
	Standard	Junior
Outside diameter	68.5mm	56mm
Surface area	0.42m ² (per 10")	0.06m ² (2") 0.12m ² (5")

MAXIMUM OPERATING CONDITIONS	
Temperature	80°C (for intermittent exposure to air) 60°C (for continuous exposure to air)
Recommended Maximum Differential Pressure	Forward flow: 4.0 bar @ 20°C Reverse flow: 1.5 bar @ 20°C
Recommended change-out Differential Pressure	2.5 bar

STERILISATION AND SANITISATION*1	
Steam or Autoclave	121°C for 30 minutes (100 cycles) 140°C for 20 minutes (100 cycles)

*1 Applies to single open end cartridges only. For all steaming and hot water applications, the Reinforced Polypropylene End Cap option must be used.

MATERIALS OF CONSTRUCTION	
Filter Media	Borosilicate Glass Microfibre (Hydrophobic Fluoropolymer coated)
Media Supports	Polypropylene
End Caps	Polypropylene
Cage	Polypropylene
Core	Stainless Steel (316)

Product validation guide available on request. All PurePore GF Gas cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

MORE FROM PORE FILTRATION:

Depth Filters – Pleated Depth Filters – Membrane filters – Carbon filters – Bag Filters – St.St. Filters – Basket Filters – Strainers – Hygienic & Industrial liquid housings – Gas housings

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