

PORE FILTRATION

SUREPORE GAS PTFE MEMBRANE CARTRIDGE FILTER FOR STERILE GAS FILTRATION

SurePore Gas membrane filters use a double layer of PTFE membrane and offer the security necessary in sterilisation of air, gases and can be used with aggressive solvents and chemicals.

Due to their optimised construction they offer high gas flows at low differential pressures significantly prolonging service life in existing applications or reducing initial capital cost in new applications.

RELIABILITY

SurePore Gas membrane range offers absolute retention of all microorganisms, bacteria and viruses that is validated by bacterial challenge and described in its validation guide that is available upon request.

COMPATIBILITY

SurePore Gas membrane cartridges use a thermal bonding construction process ensuring that no adhesives or surfactants are necessary. All components have broad chemical compatibility and optimised for long operational service life.

ECONOMY

The flow rate to differential characteristics of this cartridge ensure the highest security and minimise filtration costs.

SUITABLE FOR HIGH TEMPERATURE OPERATION

SurePore Gas can ensure integrity at temperatures up to 140°C and pressure drop up to 0.3 bar due to the enhanced core and adapter structure. SurePore Gas can provide excellent filtration service for your process. For applications requiring autoclaving and sterilization, MS recommends the use of adaptor with SS insert to ensure filter sealing after cooling. Cartridges should be cooled to system operating temperature prior to use.



TYPICAL APPLICATIONS

STERILE FILTRATION OF FERMENTOR INLET AND EXHAUST GASES

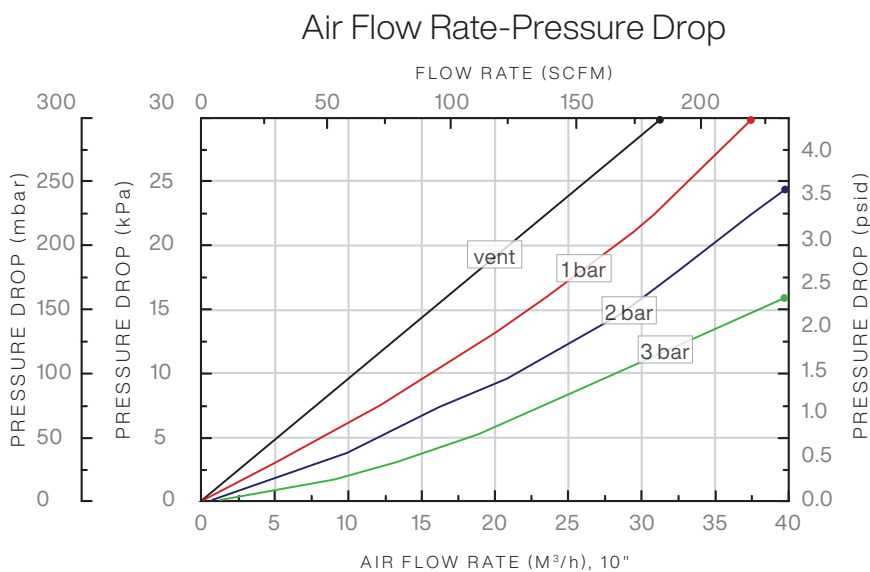
VENTING OF PRODUCT AND STORAGE TANKS

VENTING OF AUTOCLAVES

STERILE FILTRATION OF GASES USED THROUGHOUT THE PROCESS INDUSTRIES (AIR, CO₂, O₂)

SUREPORE GAS PTFE PLEATED CARTRIDGE FILTER

An Absolute Filter with High Flow Rate For Gases



REGULATORY COMPLIANCE

ASTM D6394 SP0112

FDA 21 CFR 177.1655

ISO 10993-Part 1, 5

EN 285:2006+A2:2009.

Regulation (EC) No 1935/2004

MATERIALS OF CONSTRUCTION

Filter membrane	Double Layer Polytetrafluoroethylene
Supports	Polypropylene
Cage/End Caps	Polypropylene
Core	Polypropylene
Adaptor	Polypropylene
O-rings	Silicone/EPDM

OPERATING PARAMETERS

Maximum Operating Temperature	1.9 bar@82°C
Maximum Differential Pressure (forward)	5.0 bar@25°C
Maximum Differential Pressure (reverse)	3.4 bar@25°C
Recommended replacement pressure	2.4 bar

FILTER DIMENSIONS

Outer Diameter	68.5mm
Inner Diameter	33.0mm
Filtration Area	≥0.74m²

SAFETY

Bacterial Endotoxin	≥0.25EU/ml
Extractable	≥40mg/10inches

STERILIZABLE

Autoclave	126°C, 60 min, 100cycles
Steam In-Place	126°C, 60 min, 100cycles pressure drop <0.3bar

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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