

PORE FILTRATION

SUREPORE GAS PVDF PLEATED CARTRIDGE FILTER

AN ABSOLUTE FILTER WITH HIGH FLOW RATES FOR GASES

SurePore Gas filters using single layer PVDF membranes, have great efficiency for applications requiring sterilization of air, gas or aggressive solvents and chemicals. Through the optimization of structure, SurePore Gas can make full use of the advantages of high gas flow rates of PVDF membrane, which prolongs service life and performance.

RELIABILITY

From raw materials purchase, transport to production and storage, all operations follow ISO 9001 quality management system. SurePore Gas manufactured, tested and packed in a cleanroom to ensure product cleanliness. SurePore Gas provide absolute retention based on liquid bacteria challenge, 100% integrity tested after manufactured, and validation guide is available for compliance with regulatory requirements.

COMPATIBILITY

SurePore Gas cartridge filters are sealed using thermal bonding process, contain no adhesive and surfactant. The components of SurePore Gas, include of Polyvinylidene Fluoride, Polypropylene and Silicone/EPDM, provide broad chemical compatibility and optimized for long on-stream air service. Especially suitable for gases, as well as with PP and PVDF compatible chemicals, work for a long time and have very low precipitation.

ECONOMY

High flow rate of SurePore Gas filters, greatly reduce the cost, and its optimized structure can give full play to the performance of membrane. These features ensure the highest process efficiency and minimized filtration costs.

REGULATORY COMPLIANCE

ASTM D6394 SP0112

FDA 21 CFR 177.1655

ISO 10993-Part 1, 5

EN 285:2006+A2:2009.



TYPICAL APPLICATIONS

STERILIZING FILTRATION OF
FERMENTATION INLET AND
EXHAUST AIR

STERILE VENTING OF
AUTOCLAVES

STERILE AIR FILTRATION IN
BIOCLEAN ROOM AND
EQUIPMENT OF
BIOLOGICAL PHARMACY

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SUITABLE FOR HIGH TEMPERATURE STERILIZING

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 adaptor 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.

MATERIALS OF CONSTRUCTION

Filter membrane	Single Layer Polyvinylidene Flouride
Supports	Polypropylene
Cage/End Caps	Polypropylene
Core	Polypropylene
Adaptor	Polypropylene
O-rings	Silicone/EPDM



FILTER DIMENSIONS

Outer Diameter	68.5mm
Inner Diameter	33.0mm
Filtration Area	≥0.74m ²

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

SAFETY

Bacterial Endoxin	≥0.25EU/ml
Extractables	≥40mg/10inches

STERILIZABLE

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

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