

## SUREPORE GAS PTFE PLEATED CARTRIDGE FILTER

An Absolute Filter with High Flow Rate For Gases

### DESCRIPTION

SurePore Gas filters using the double layer PTFE 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 velocity and high carrying amount of PTFE membrane, which prolong service life and performance with far more than competitive filters.

### 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 Polytetrafluoroethylene, 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 PTFE compatible chemicals, work for a long time and have very low precipitation.

### ECONOMY

High velocity 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.

Regulation (EC) No 1935/2004



### TYPICAL APPLICATIONS

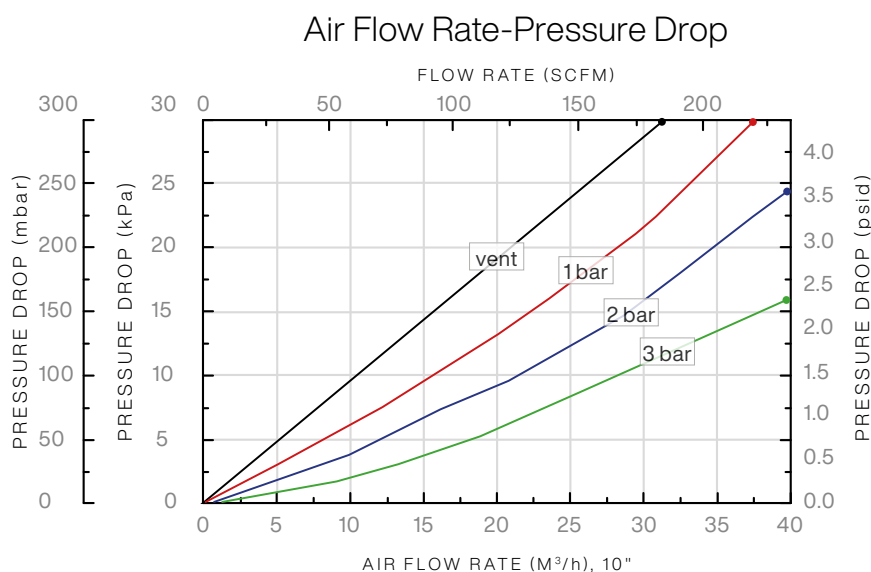
STERILIZING FILTRATION OF  
FERMENTATION INLET AND  
EXHAUST AIR

STERILE VENTING OF  
AUTOCLAVES

STERILE AIR FILTRATION  
IN BIOCLEAR ROOM AND  
EQUIPMENT OF BIOLOGICAL  
PHARMACY

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## SUITABLE FOR SEVERE 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 | 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 |

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