

## HIGH FLOW BIO-X Vent Autoclave Filter Cartridges

- air / gas filters
- PTFE impregnated borosilicate glass microfibre

HIGH FLOW BIO-X Vent Autoclave filter cartridges are designed for critical applications where sterile air is required to break the vacuum formed by the condensation of steam inside the autoclave chamber.

At the heart of the HIGH FLOW BIO-X Vent Autoclave filter cartridge is the latest inherently hydrophobic PTFE impregnated microfibre. With a voids volume of 94%, this media gives exceptional flow rates when compared to membranes. It will remove all particles down to 0.01 micron therefore ensuring the removal of microorganisms, including bacteria and viruses. The filter cartridges are manufactured using a heat sealed construction and no adhesives or resins are used in fabrication. The result, a product of not only exceptional quality, but also a very cost effective solution for the production of sterile air.

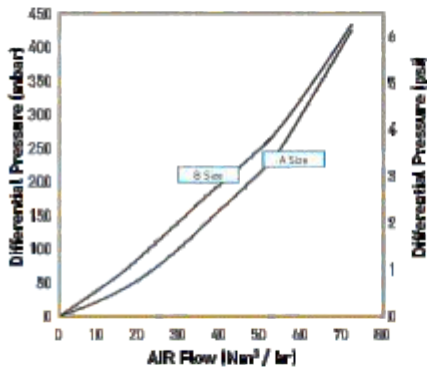
### Features and Benefits

- High flow rates
- Detachable prefilter layer
- Hydrophobic filter medium
- Exceptional strength
- Exceeds requirements of HTM10 and EN285
- Repeatedly autoclavable

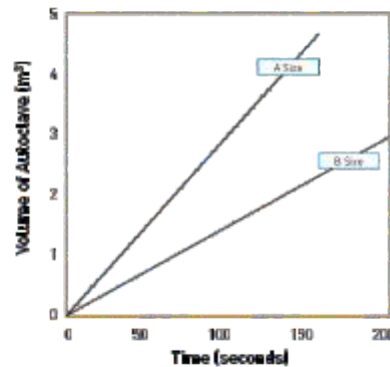


Note: BIO-X is a registered trademark of Parker domnick hunter

### Performance Characteristics



Cartridge flow rates @ 0 barg



Vacuum break time against autoclave volume

## Specifications

### Materials of Construction

- Filtration Media: PTFE Impregnated Glass Microfibre
- Upstream Support: Polypropylene
- Downstream Support: Polypropylene
- Inner Support Core: Polypropylene
- Outer Protection Cage: Polypropylene
- Prefilter Sock: Polyurethane
- End Caps: Polypropylene
- Standard gaskets: EPDM

### Food and Biological Safety

Materials conform to the relevant requirements of 21CFR Part 177, EC1935 / 2004 and current USP Plastics Class VI - 121 °C and ISO10993 equivalents.

### Recommended Operating Conditions

The maximum differential pressure in direction of flow (outside to in) is 4.5 barg (65.26 psig) at 70 °C (158 °F).

The maximum recommended continuous operating temperature is 70 °C (158 °F).

### Effective Filtration Area (EFA)

5" (125 mm) 0.2 m<sup>2</sup> (2.3 ft<sup>2</sup>)

### Sterilization

HIGH FLOW BIO-X Vent Autoclave filter cartridges can be repeatedly autoclaved up to 142 °C (288 °F) for a maximum of 150 cycles.

*Note: Remove prefilter layer before steaming.*

### Retention Characteristics

The HIGH FLOW BIO-X Vent Autoclave range of cartridges has been fully validated by aerosol bacterial challenge levels of >10<sup>7</sup> *Brevundimonas diminuta* per cm<sup>2</sup>. Independent test work also shows full retention to MS-2 Coliphage.

### Integrity Test Data

All cartridges are integrity tested prior to despatch by the aerosol challenge test method using Parker domnick hunter's VALAIRDATA IL

## Ordering Information

ZGP  .01

Code	Length (Nominal)	Code	Endcap
B	3.44" (88 mm)	V	1/2" BSPP
A	5.98" (152 mm)	X	1/2" NPTM

Supplied in packs of 3.