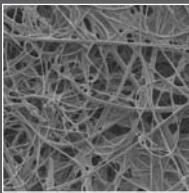
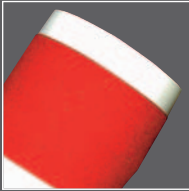


HIGH FLOW BIO-X VENT AUTOCLAVE



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

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 micro-organisms 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.

Technical Specifications

Materials of Construction

Filtration Media	:	PTFE Impregnated Glass Microfibre
Upstream Support	:	Polypropylene
Upstream Prefilter Layer	:	Polyurethane
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 and current USP Plastics Class VI - 121°C and ISO10993 equivalents.

Effective Filtration Area*

0.18 m² (1.9 ft²) per 250 mm (10" module).

Retention Characteristics

The HIGH FLOW BIO-X VENT AUTOCLAVE range of cartridges has been fully validated by aerosol bacterial challenge levels of 10¹² *Brevundimonas diminuta* per 10 inch module. Independent test work also shows full retention to *MS-2 Coliphage*. A full validation guide is available upon request.

Recommended Operating Conditions

The maximum differential pressure in direction of flow (outside to in) is 4.5 bar (65 psi) at 70°C (158°F). The maximum recommended continuous operating temperature is 70°C (158°F).

Sterilisation

HIGH FLOW BIO-X VENT AUTOCLAVE filter cartridges can be repeatedly autoclaved up to 135°C (275°F) for a maximum of 100 cycles.

Note: remove prefilter layer before steaming.

Integrity Test Data

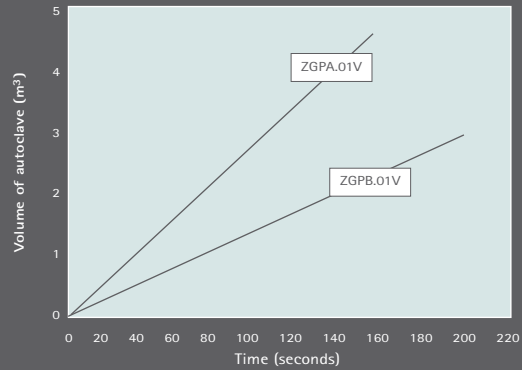
All cartridges are integrity tested prior to despatch by the aerosol challenge test method using domnick hunter's VALAI/RDATA II.

Pharmaceutical Validation

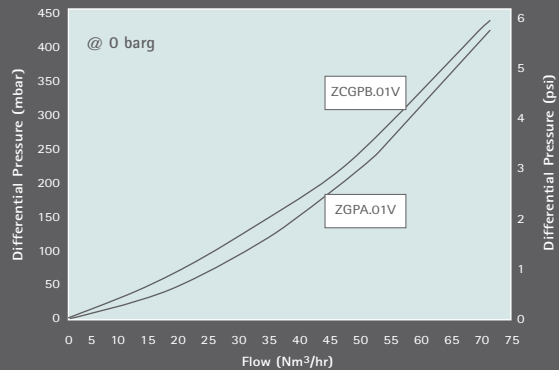
A full validation guide is available upon request with Lab Services Group (LSG) support for specific individual requirements.

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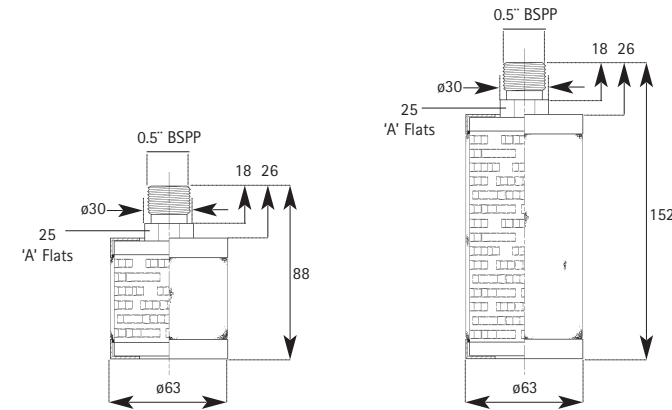
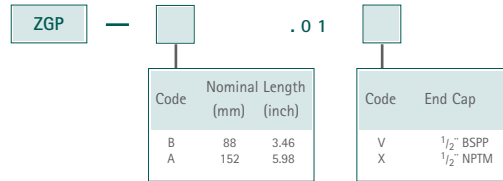
Vacuum Break Time Against Autoclave Volume



Cartridge Flow Rates



Cartridges



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