



Filtertechnik

FTECH-PORE FPG

PLEATED DEPTH FILTER CARTRIDGE

Ftech-Pore FPG Microfiltration cartridges have been designed as effective membrane prefilters and as final polishing filters for all liquid processing applications. Manufactured using polypropylene for the hardware, the Ftech-Pore FPG utilises a superior Borosilicate Glass Microfibre as the media. This highly efficient pleated depth media offers excellent dirt holding capacity and retention levels, making it an ideal clarifier in many liquid processing applications. Its thermally bonded construction ensures minimal extractables and its high filtration efficiency makes it an excellent choice for use in beverage, fine chemical & water treatment processes.

The construction utilises thermal welding techniques to bond all the components therefore eliminating adhesives and extractables and optimising cartridge integrity.

The Ftech-Pore FPG cartridges use pleated depth media and are available in Standard and Junior sizes with micron ratings from 0.3µm to 10µm in the full range of industry standard lengths and end cap styles.

Product Features

- Borosilicate Glass Microfibre media
- Epoxy binding for maximum compatibility
- Polypropylene hardware with Polyester drainage layers
- Absolute removal ratings Beta ratio 1000
- Modular construction
- Standard and Junior Configurations
- Graded density media for optimum dirt holding capacity
- Materials meet US FDA CFR Title 21 requirements

Suitable for most sanitisation regimes including steaming, autoclaving, hot water flush and most common sanitising agents.



Ftech-Pore FPG FEATURES AND BENEFITS

- Absolute removal ratings for consistent and reliable performance
- Pleated depth media for maximum dirt holding capacity
- High surface area giving high flow rates and low initial pressure losses
- Range of Absolute ratings from 0.3 to 10µm
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Full product guide available

Technical data

Dimensions

Outside Diameter:	Standard	Junior
	68.5mm	55.5mm
Typical Surface Area:	0.36m ² (Per 10") 0.12m ²	
Length:	See ordering guide	

Sterilisation and Sanitisation*1

Steam or Autoclave:	121°C for 15 mins (40 cycles)
Hot Water:	90°C for 30 mins (0.2 bar Dp max)

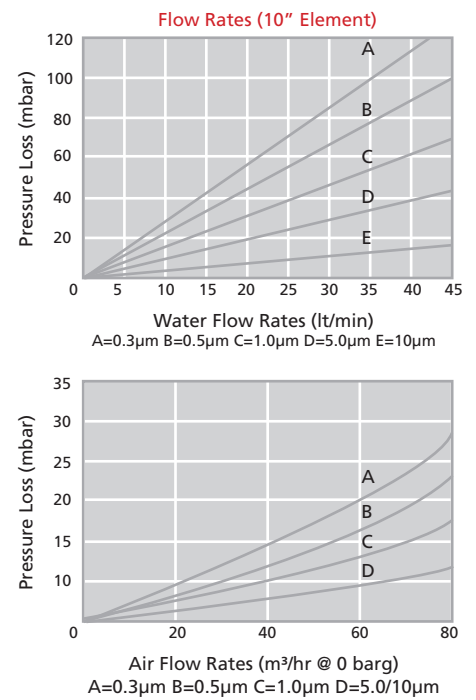
*1 Applies to single open end cartridges only. For all steaming and hot water applications, the stainless steel end cap insert or Glass Filled end cap option must be used.

Maximum Operating Conditions

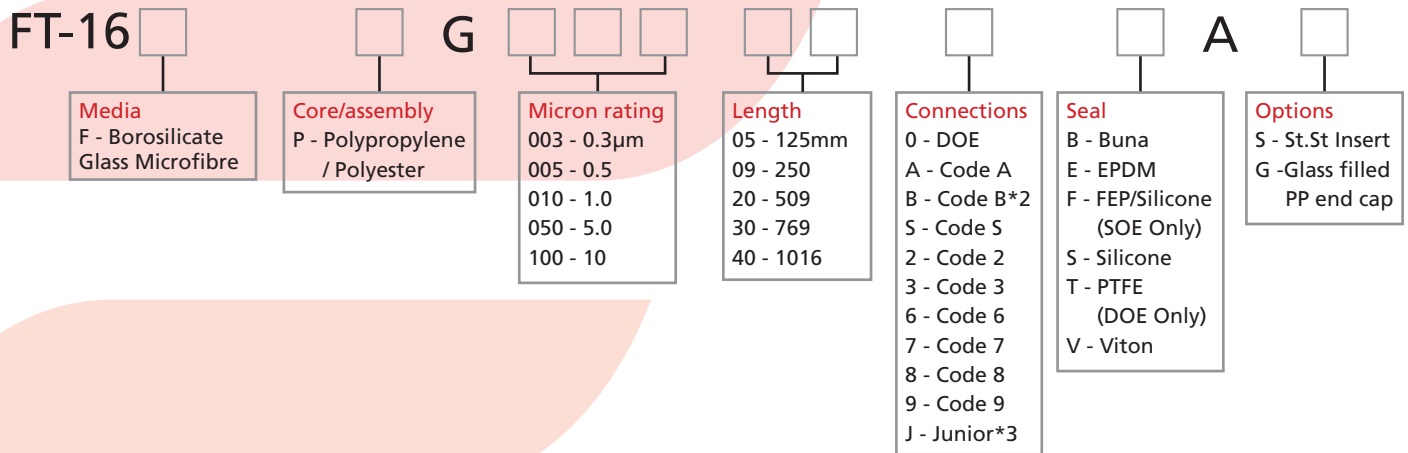
Temperature:	80°C
Recommended Maximum Differential Pressure:	
Forward Flow:	4.0 Bar @ 20°C
Reverse Flow:	3.5 Bar @ 20°C
Product validation guide available on request. All Ftech-Pore FPG cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.	

Materials of Construction

Filter Media:	Borosilicate Glass Microfibre with Epoxy resin binder
Media Support:	Polyester
Cage, Core & End Caps:	Polypropylene (PP)



Ordering guide



Example: 16FPG005-20ASA = Glass Microfibre media with Polypropylene hardware, General grade, 0.5µm rating, double length 20", code A connection with silicone seal.

*2 Code B - to fit Filtrertechnik 50 Series housings only

*3 Junior Cartridges available in 5", Code J, Single Open Ended Only

Industries and applications

- **Food and Beverage:** Bottled water, Beers, Wines, Flavours, Polishing lines, Clarification
- **Pharmaceutical:** Membrane pre-filtration, Ophthalmics, Oral medications, Serum
- **Fine Chemicals:** Polymers, Bases, Solvents
- **Cosmetics:** Alcohol, Creams, Lotions, Essential oils, Mouthwashes
- **Water Treatment:** Potable water, Resin trap, Pre/Post UV, Membrane protection