

FTECH GARD

NOMINAL RATED DEPTH FILTER CARTRIDGE

Ftech-Gard is the latest development in nominal rated spun bonded filter cartridge design. Manufactured with a true graded density, These elements exhibit a high void volume that results in low clean differential pressure losses and an excellent dirt holding capacity when compared to similarly rated elements. Each cartridge is complete with an integral support for maximum strength. The superior structure remains integral even under severe operating conditions and is less prone to media migration and breakthrough often found on other unsupported spunbonded products. Ftech-Gard cartridges are produced using a unique manufacturing process resulting in the following features:-

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Nominal Rated Filter Media

- Available from 1 to 150µm
- Consistent reliable performance

Unique Construction

- One piece high strength all polypropylene support core
- High void volume, resulting in low clean Δp and excellent dirt holding capacity
- End cap welded direct to the core for extra security and strength
- Thermally bonded fibre matrix minimises fibre migration
- One piece construction up to 1016mm (40")
- FTECHGARD ADVANTAGE grade featuring moulded end caps and rigid outer support cage

Product Features

- 100% Polypropylene
- Materials meet US FDA Title 21 and USP Class VI requirements
- WRS listed and REG 31 approved for use in UK potable water supplies

Ftech-Gard fibres are blown continuously onto a central support core, without the need for binders, resins or lubricants. This results in a one piece construction that is resistant to unloading and media shedding.

True depth filtration results from the closely controlled fibre production in manufacturing, and also the process environment which ensures a consistent and reliable high quality element. Elements are available up to 1016mm (40") in length, either double open ended or with most common end cap fittings, and also in 10" and 20" BIG BLUE sizes.

Ftech-Gard features and benefits

- Consistent and reliable performance and efficiency
- Identification embossed on every cartridge
- Graded density structure for maximum dirt holding capacity
- Increased void volume giving high flow rates and low initial pressure losses
- Wide chemical compatibility, using 100% polypropylene to meet FDA requirements
- Range of Nominal ratings from 1 to 150µm
- Thermal bonding process minimises media migration and ensures minimal extractables
- ADVANTAGE grade featuring moulded end caps and rigid outer support cage
- BIG BLUE large diameter cartridges available in all grades



TECHNICAL DATA

Dimensions

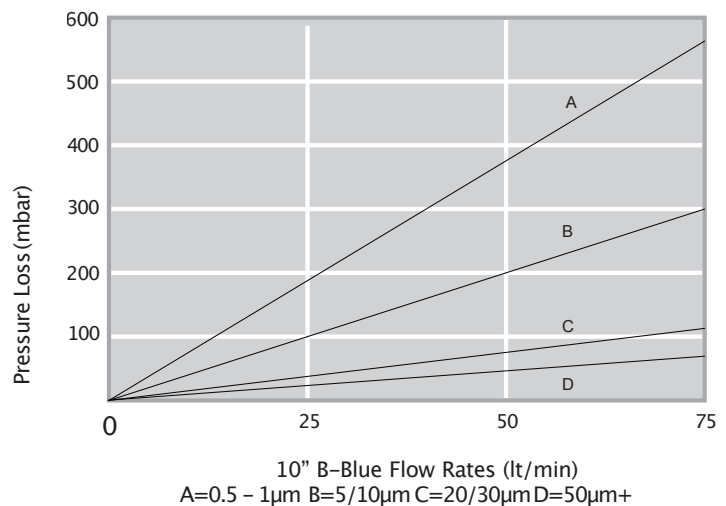
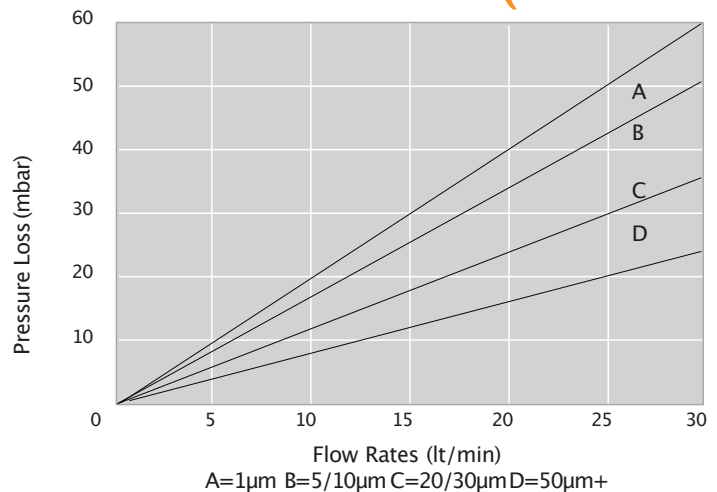
Outside Diameter: 64mm
 I 16 (Big Blue)
 Core Diameter: 28mm
 Length: See ordering guide

Maximum Operating Conditions

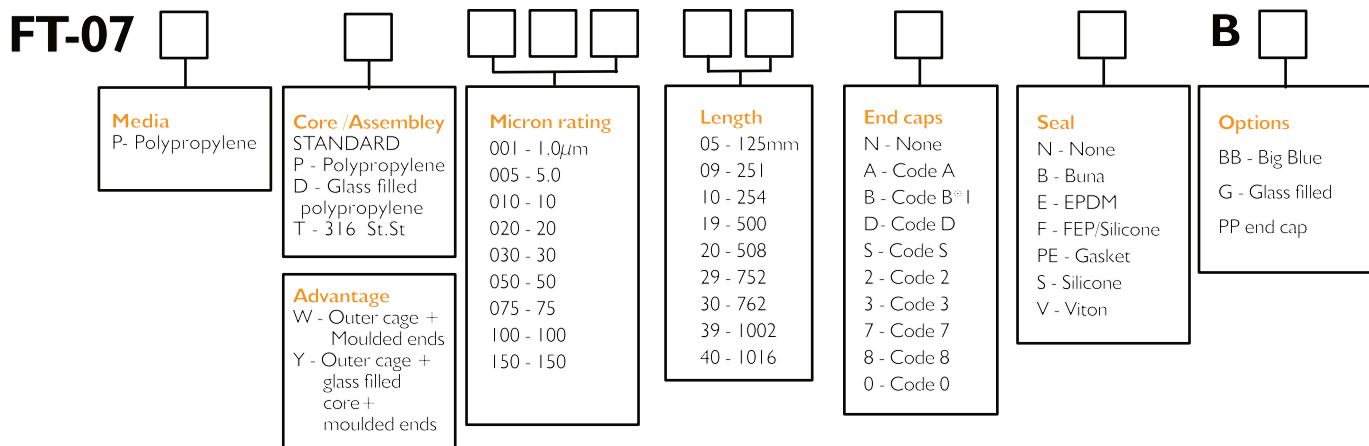
Temperature: 07PP: 80°C
 07PD: 100°C
 07PT: 100°C

Maximum ΔP	PP Media PP Core	PP Media Reinforced PP Core	PP Media StSt Core
@ 20°C	4.0	4.0	4.0
@ 50°C	1.5	4.0	4.0
@ 80°C	0.25	2.4	4.0
@ 100°C	-	1.5	4.0

Flow Rates For Water (10" Element)



Ordering Guide



Industries and applications

- **Food and Beverage:** Bottled water, Flavours, Polishing lines, Trap filters
- **Pharmaceutical:** Base product clarification, Membrane pre-filtration, Bulk transfer
- **Fine Chemicals:** Solvents, Process streams, Water purification, Acids, Alcohols
- **Petrochemicals:** Waterflood, Completion fluids, Amine streams, Glycol
- **Cosmetics:** Alcohols, Essential oils, Water lines, Transfer filters
- **Water Treatment:** Membrane protection (Reverse Osmosis, Nano), Resin trap, Potable water
- **Metal Finishing:** Plating solutions, Paint and resin products, Wash solutions