FTECH - MESH

STAINLESS STEEL FILTER CARTRIDGES

FTECH-Mesh stainless steel filter cartridges are for use in a wide range of applications and industries, suitable for use in both liquids and gases. All **FTECH-Mesh** cartridges are manufactured from 316 stainless steel throughout. They are available in both plain cylindrical and pleated configurations, using the very latest in high specification mesh or sintered metal fibre media. Each design provides a simple sleeve of filter medium supported by a central core. The pleated design provides over twice the effective filtration area of the cylindrical cartridge. The plain cylindrical sintered metal powder cartridges are self supporting. In all designs, the construction method used is fully welded with no adhesives or glues used. This method of construction guarantees cartridge integrity, eliminating the risk of bypass and the presence of extractables derived from any bonding agents.

Unique Construction

Modular assembly up to 745mm (30") long, 316 Stainless steel, welded for ultra clean assembly

- **SS Grade** -Nominal rated precision woven mesh, available 5-840μm
- **SF Grade** -Absolute rated Sintered metal fibre, available 3-60μm
- Optional backwash cage for enhanced mechanical strength
- **SP Grade** -Sintered powder media, available 6-60μm

Product Features

FECH-Mesh cartridges are available with many standard industrial end cap configurations and seal materials, including the Junior size at 2.5 and 5" lengths. They are available with optional outer guards for reverse flow or backwashing to enhance their superior robust design.

The method of construction and materials used allow for use from –150°C to +300°C and up to 25 bar differential pressure in normal flow direction.

FEATURES AND BENEFITS

- All 316 stainless steel construction for wide chemical resistance
- Individually marked with full product code
- Choice of precision woven wire, sintered metal fibre and sintered powder media
- Wide range of ratings from 3μm through to 840μm
- Fully welded construction for all grades
- Full material traceability
- Suitable for use from -150°C to 300°C
- No adhesives or bonding agents use
- Junior (56mm) and Standard (66mm) diameters

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TECHNICAL DATA

Dimensions

		Standard 10"	Junior 5"
Outside Diameter:		66mm	56mm
Typical Surface Area:	Cylindrical:	0.05m²	0.02m²
	Pleated:	0.13m²	0.08m²

Maximum Operating Conditions

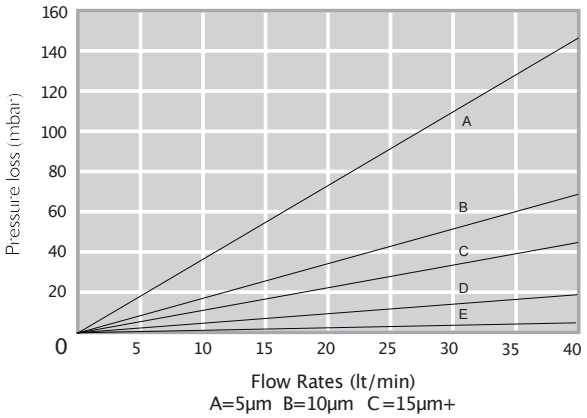
Temperature: 300°C

Recommended Maximum Differential Pressure:

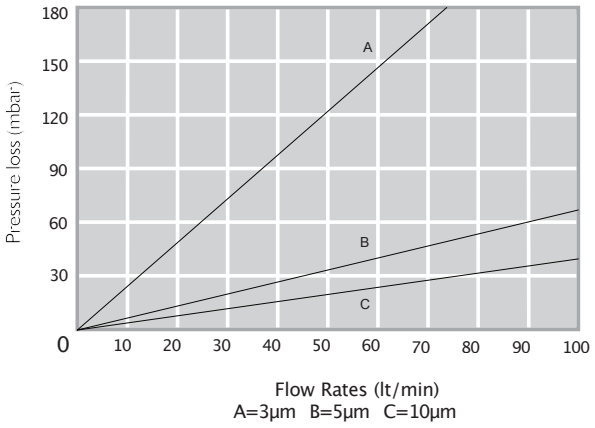
Forward Flow:	Cylindrical:	15 bar
	Pleated:	25 bar
Reverse Flow:	3 bar with backflush support	

The flow rate curves are for 10" plain cylindrical elements. To gain the clean pressure loss for all pleated elements, multiply the cylindrical element clean loss by 0.4.

10" Mesh (66mm Dia), Cylindrical Element



10" Metal Fibre (66mm Dia), Cylindrical Element



Ordering Guide

FT-16 ☐ ☐ ☐☐☐ ☐☐ ☐ ☐ **B** ☐

Media
- SS - 316 Stainless Steel Mesh
- SF - 316 Stainless Metal Fibre
- SP - Sintered Powder*1

Core /Assembley
- C - Cylindrical
- B - Cylindrical + Support

Micron Rating (µm)

SS Mesh	SF Fibre	SP Powder
005 - 5	003 - 3	006 - 6
010 - 10	005 - 5	010 - 10
020 - 20	010 - 10	015 - 15
040 - 40	015 - 15	030 - 30
070 - 70	020 - 20	060 - 60
100 - 100	030 - 30	
250 - 250	040 - 40	
450 - 450	060 - 60	
840 - 840		

Length
- 05 - 123
- 09 - 248
- 19 - 494
- 29 - 745

Connections
- 0 - Code 0
- 2 - Code 2
- 3 - Code 3
- 7 - Code 7
- 8 - Code 8
- J - Junior 56mm*2

Seal
- B - Buna
- E - EPDM
- F - FEP/Silicone (SOE Only)
- G - FEP/Viton (SOE Only)
- S - Silicone
- T - PTFE (DOE Only)
- V - Viton

Options
- C - Trueseal*3

Example: 16SFC005-090E=Cylindrical Stainless metal fibre, 5µm rating, single length 10" long (248mm), Code 0 connections with EPDM seal.
*1 Cylindrical Only
*2 Junior Cartridges available in 2.5& 5", Code J, Single Open, End Only *3 Junior Cartridges available in 5", Code J, Single Open Ended Only
*3 Junior 56mm only

Industries and applications

- **Pharmaceutical:** Steam, Solvents, Chemicals
- **Fine Chemicals**: Polymers, Acids, Bases, Solvents
- **Cosmetics**: Alcohol, Creams, Lotions, Waxes, Oils based solution
- **Water Treatment:** Potable water, Resin trap
- **Automotive:** Blanking wash oils, Mastic lines
- **Petrochemicals:** Amine stream, Glychol solutions

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