Flusint Fiber Cylindrical

Cylindrical Sintered Metal Fibre Filter Elements

Introduction

Manufactured from randomly laid metal fibres, sinter-bonded to form a uniform high porosity filter medium, FFC demonstrates a significantly low pressure drop, high permeability and excellent dirt holding capacity.

Moreover, sintered metal fibre may be pleated to increase the available filtration area of a filter element, thereby further increasing dirt holding capacity, minimising maintenance and maximising on-stream processing.

With the feasibility to formulate metal fibres to meet specific application requirements, combined with inherent durability, sintered metal fibre filters can be cleaned *in situ* without interrupting process flow, thereby providing the ultimate in process economics by reducing downtime to a minimum.

Features and Benefits

- Resistant to high temperatures and corrosive environments.
- High void volume.
- Excellent cleanability and dirt holding capacity.
- Minimal maintenance costs.
- Available in 316L as standard with other alloys
- such as Inconel® 601, Hastelloy® X, NiCrMo Alloy
- 59 and Fecralloy® on request.

Typical Applications

- Catalyst recovery and retention
- Gasification and chemical production
- Vent filters
- Agrochemical
- Steam filtration
- Culinary steam
- Process steam
- Pharmaceutical powder recovery
- Polymer melt

Specifications

Materials of Manufacture

316L stainless steel standard. Inconel®, Hastelloy®, NiCrMo Alloy 59 and Fecralloy® on request or by process selection. Additional alloys are available on request.

Element Dimensions*

Diameter:	66mm	(2.6”) standard
Length:	05:	125mm (5”)
	10:	250mm (10”)
	20:	498mm (20”)
	30:	745mm (30”)
	40:	1012mm (40”)

** Other diameters and lengths available on request.*

Effective Filtration Area

0.05m^2 (0.55ft^2) per 250mm (10”) element.

Gaskets and O-Rings*

EPDM as standard. Chemraz®, nitrile, PTFE, silicone, Viton®, FEP coated EPDM, FEP coated silicone, FEP coated Viton® available on request or by process selection.

** FDA approved seals are available.*

Typical Maximum Differential Pressure* (all lengths)

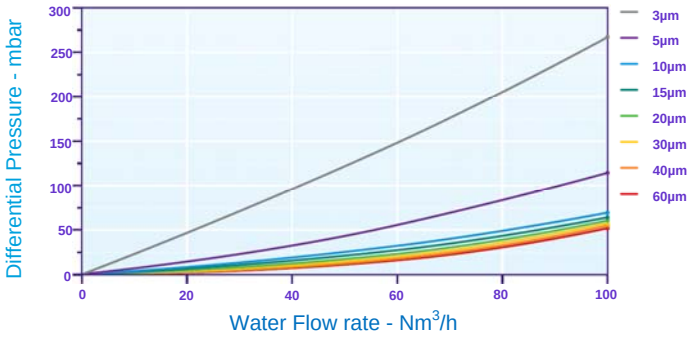
Normal flow direction:	15bar (218psi)
Reverse flow direction:	3bar (44psi)

** Grade dependant.*

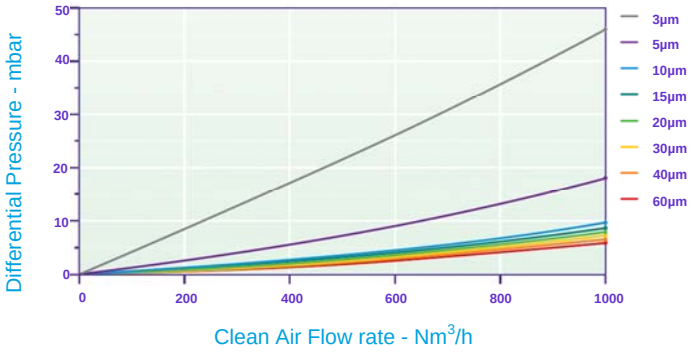
Operating Temperature

Maximum continuous:	From -195°C (-319°F) to 340°C (644°F) seal limiting. From -269°C (-452°F) to 1000°C (1832°F) alloy limiting.

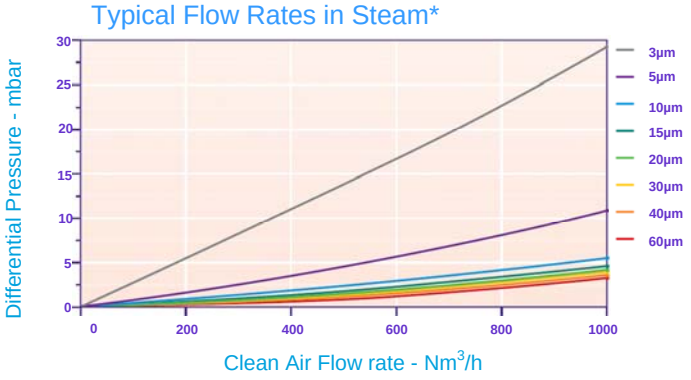
Typical Flow Rates in Water*



Typical Flow Rates in Air*



Typical Flow Rates in Steam*



** Using a 10 inch element, at ambient temperature*

FFC Stainless Steel Media Grades

Micron Rating (µm) micron code	Liquids (µm)* 99.9% efficiency	Gases (µm) 99.9% efficiency
3 (0003)	3	1
5 (0005)	5	1.5
10 (0010)	10	3
15 (0015)	15	4
20 (0020)	20	6
30 (0030)	30	8
40 (0040)	40	11
60 (0060)	60	16

** Single Pass Efficiency Test in accordance with ASTM795 ACFTD.*

ORDERING INFORMATION

PKS — 20 — S — SA — 4 — 0 — V

CONSTRUCTION

PKS	Cylindrical

SUPPORT MATERIAL **

S	AISI 316L

** other materials available upon request

TYPE OF CONSTRUCTION

SA	Cylindrical

CODE	FILTRATION RATING
3	3 µ
5	5 µ
10	10 µ
20	20 µ
30	30 µ
40	40 µ
60	60 µ

NOMINAL	LENGTH
4	100 mm
10	250 mm
20	500 mm
30	750 mm
40	1000 mm

END CAP CONFIGURATION	
0	DOE
3	CODE 3
7	CODE 7
8	CODE 8
1” THREADED GAS	

CODE	GASKETS MATERIAL
N	NITRILE
S	SILICONE
E	EPDM
V	VITON
P	PTFE

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