

# SF series

FILTERING CARTRIDGES  
SINTERED FIBRES  
OD 2.3"-2.7" (63-68 mm)



## MAIN APPLICATIONS:

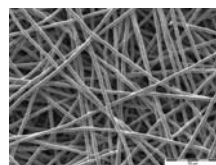
- FINE CHEMICAL
- PETROCHEMICAL
- MELTED POLYMERS
- OIL & GAS
- FOOD & BEVERAGE
- PHARMACEUTICAL
- MICROELECTRONIC
- HYDRAULIC
- GENERAL INDUSTRY

## CHARACTERISTICS:

- High mechanical strength
- High temperature resistance
- Excellent chemical compatibility
- Pleated construction
- Cleanable
- Dirt holding capacity three time higher than conventional metallic cartridges
- Porosity and permeability double than sintered powder cartridges
- Flow-rate four time higher than conventional metallic cartridges
- No media migration
- 1935/2004/CE certification available upon request
- Filtration direction from outside to inside
- Twelve end cap configurations available
- Four different construction material available
- Two assembly technologies available
- Special design for melted polymers filtration available
- Suitable for both liquid and gas filtration
- Absolute filtration rating from 1 to 75  $\mu\text{m}$

## CORROSION RESISTANCE:

- |             |  |
|-------------|--|
| - 316L SS   | Not suitable with Cl <sup>-</sup> Br <sup>-</sup> F <sup>-</sup> |
| - Inconel   | Not suitable with HCl, HF, H <sub>2</sub> SO <sub>4</sub>        |
| - Hastelloy | Suitable for HCl, HF, H <sub>2</sub> SO <sub>4</sub>             |



# ASCO FILTRI

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**SINTERED FIBRES**  
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## TECHNICAL DATA

### DIFFERENTIAL PRESSURE

*Cartridges replacement:*

2.0 bar @ 25 °C

*Max. allowable:*

8 bar @ 25 °C (crimped)

15 bar @ 25 °C (welded)

103 bar @ 25 °C (polymers)

### WORKING TEMPERATURE

360 °C - 316L SS

560 °C - Inconel®

600 °C - Hastelloy®

### CONSTRUCTION MATERIAL

*Filter media / hardware:*

- 316L SS (type G, H & P)

- 304 SS (type H & P)

- Inconel® (type H & P)

- Hastelloy® (type H & P)

*Gaskets:*

- Buna-n

- EPDM

- Viton

- Silicone

- FEP

- PTFE (only DOE)

- KlingerSil (only DOE)

### DIMENSIONS

*External diameter:*

2.4" (60 mm) Crimped

2.7" (68 mm) Welded

*Internal diameter:*

1.0" (26 mm)

1.4" (36 mm) (only cod. 9)

*Length:*

10", 20", 30", 40"

### FILTERING AREA

10" 0.13 m<sup>2</sup>

20" 0.26 m<sup>2</sup>

30" 0.39 m<sup>2</sup>

40" 0.52 m<sup>2</sup>

### OPTION

Outer protection spring

Food grade 1935/2004/CE

### Flow-rate / Delta-P data:

Grade	Liquids			Air	Steam 6 bar
	1 cP	25 cP	70 cP	0.018 cP	0.012 cP
01	1.8	0.10	0.04	20	55
03	2.0	0.15	0.05	25	60
05	2.5	0.5	0.15	30	80
10	3.0	1.5	0.5	30	80
20	3.0	1.7	1.2	40	100
30	3.5	2.0	1.7	40	120
40	3.5	2.0	1.7	50	150
≥ 60	3.5	2.0	1.7	50	150

*Liquid flow-rate (m<sup>3</sup>/h) - Air flow-rate (Am<sup>3</sup>/h) - Steam flow-rate (kg/h) - Clean Delta-P 0.05 bar  
 For gas different than air: DP = 0.05 x gas viscosity (cP) / 0.018 cP (air).*

### Filtration efficiency:

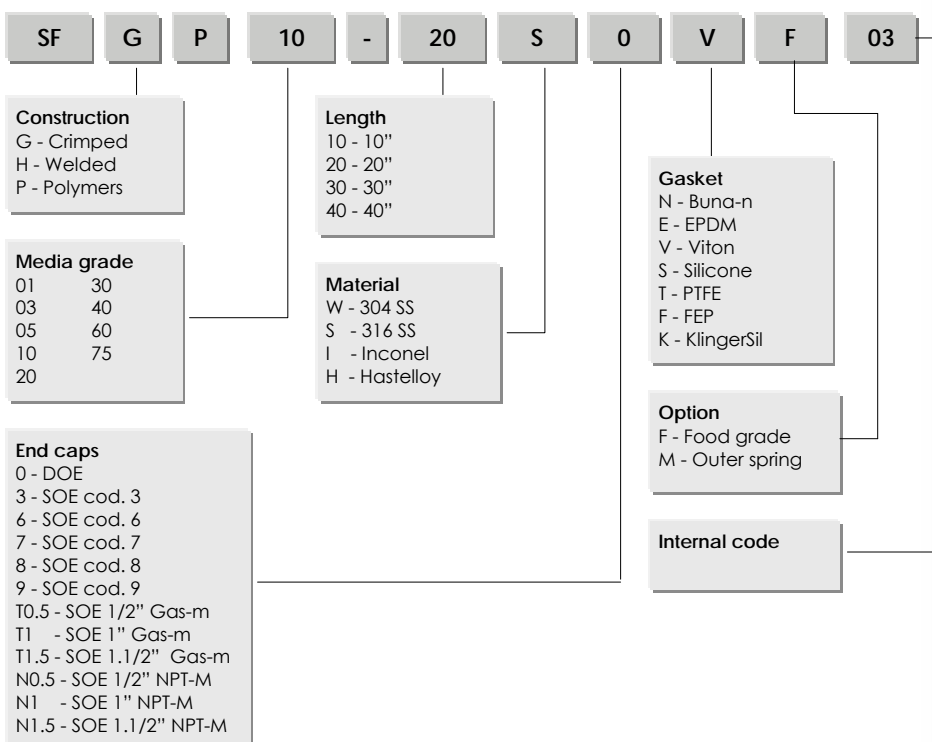
Media grade	Liquids (µm)		Gas (µm)	
	98%	99.9%	98%	99.9%
01	0.9	1	0.25	0.3
03	1	3	0.3	1
05	3	5	0.8	2
10	5	10	1	3
20	10	20	3	5
30	20	30	5	10
40	30	40	10	15
60	45	60	15	20
75	50	75	20	30

### Gaskets temperature limitation:

EPDM	120 °C	Viton	230 °C	PTFE	250 °C	FEP	250 °C
Buna-n	120 °C	Silicone	230 °C	KlingerSil	360 °C		

*Working temperature is limited from installed gaskets.*

### Ordering information:



We reserve the right to change the specifications of this specification without notice.

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