

Masterfilter SDF-P series

The Masterfilter SDF-P series pleated stainless steel composed of stainless steel sintered felt shaped during the pleating process. The stainless steel sintered felt is made from stainless steel fiber, which is then sintered under high temperatures to form the porous depth filtration material. The SDF-P filter cartridges features include a graded pore size from coarse (upstream) to fine (downstream), which results in a higher dirt holding capacity and filtration and filtration efficiency and longer service life. They are widely used in liquid and steam filtration with high viscosities.

Applications

- Steam filtration
- Aggressive chemicals and gases
- Corrosive fluids
- Viscous fluids

Features and Benefits

- Available in 316 stainless steel compatible with aggressive chemicals
- Cartridge can be cleaned and re-used
- Welded construction
- Retrofits for many existing filter cartridges
- High flow rate
- High temperature resistant and pressure
- Corrosive and oxidation resistance

Materials of Construction

- Filter media: Multilayer of stainless steel wire felt, pleated
- Structural components: 100% stainless steel
- Construction method: Welded adhesives
- End caps: AISI 316
- O-rings: EPDM, Silicone, Viton

Operating Parameters

- Max. differential pressure: 5 barg (outside to inside), 2 barg (reverse flow)



Food and Biological Safety

- Comply with the relevant requirements of EU 1935/2004 and EU directive 10/2011

Removal Ratings

Liquids

Removal rating [µm]	Pore efficiency [%]	Dirt holding capacity [mg/cm ²]	Average air permeability [L/dm ² min]	Flow rate [m ³ /h]
3.0	70	7.9	10	0.8
5.0	75	5.0	47	1.3
7.0	76	6.5	63	1.6
10	75	7.8	105	2.0
25	80	19.0	355	2.5
40	-	-	-	-

Gas

Removal rating [µm]	Pore efficiency [%]	Dirt holding capacity [mg/cm ²]	Average air permeability [L/dm ² min]	Flow rate [m ³ /h]
0.5	70	7.9	10	0.8
1.0	75	5.0	47	1.3
1.5	76	6.5	63	1.6
2.0	75	7.8	105	2.0
16	80	19.0	355	2.5
25	-	-	-	-

Part Numbers

SDF-P 0300 - 20 - HSF - S

Code	Removal rating [μm]
0300	3
0500	5
0700	7
1000	10
2500	25
4000	40

Code	Length	
	[mm]	[inch]
5	127	5
10 (H)	254	10
20	508	20
30	762	30
40	1016	40

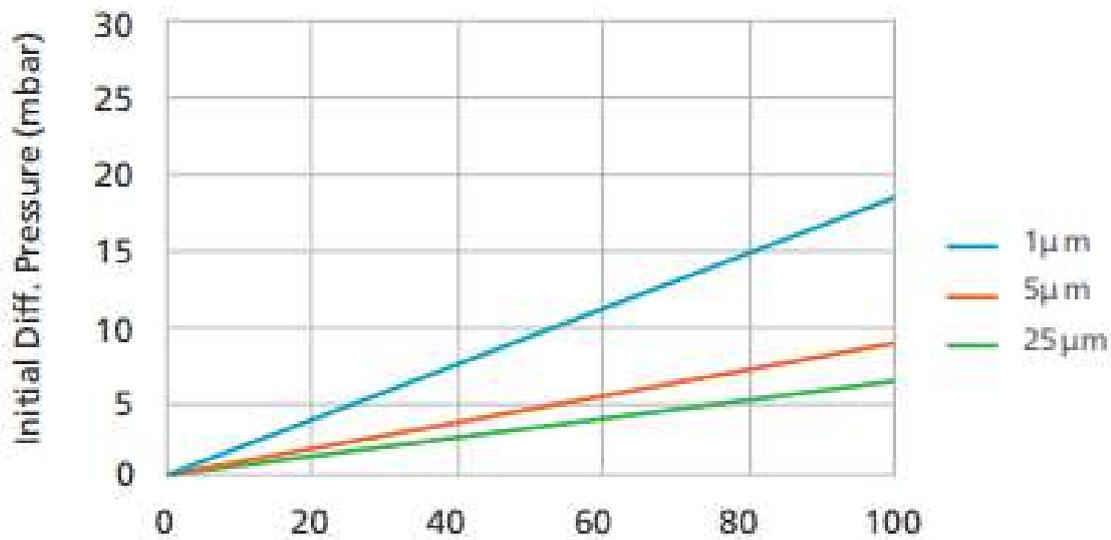
Code	End caps
DOE	Double end caps
HTC	222 O-ring/flat (Code 3)
HSH	H-code dh/Ultrafilter
HSF	226 O-ring/fin (Code 7)

Code	O-rings
S	Silicone
E	EPDM
V	Viton

e.g. part number: SDF-P-0300-20-HSF-S

SDF-P filter, 3 μm , 20" Length, Code 7 End caps, Silicone O-rings

Flow rate



Note: 1030 cartridge tested with saturated steam @ 121°C/1 barg