

HPF series

PLEATED CARTRIDGES
HIGH FLOW STYLE
OD 6" (152 mm)

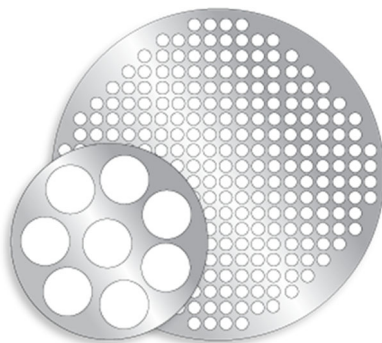


MAIN APPLICATIONS:

- DESALINATION
- WATER TREATMENT
- FINE CHEMICALS
- PETROCHEMICAL
- OIL & GAS
- FOOD & BEVERAGE
- POWER GENERATION
- PAINTS AND RESINS
- PHARMACEUTICAL
- MICROELECTRONICS
- HYDRAULIC
- STEEL MILL
- GENERAL INDUSTRY

FEATURES:

- Multiple pleated layers construction
- High filtration area
- High flow-rate
- High dirt holding capacity
- Filtration direction from inside to outside
- Inner core for high mechanical strength
- Outer cage to protect the pleated media: PP cage for standard design, steel cage for heavy duty applications
- Reduced filter housing dimension
- No fibre releasing
- Four different types of filter media available
- Wide range chemical compatibility
- Suitable for both liquid and gas filtration
- FDA approved materials (*only for full polypropylene model*)
- 1935/2004/CE certification available upon request (*only PP version*)
- Absolute filtration rating from 0.6 to 80 µm



HPF series cartridges are designed to reduce filter housing dimension.

One HPF series cartridge is equivalent to:

- 36 standard melt-blown filter cartridges
- 15 pleated cartridges
- 5 filtering bag size 2



Brochure no.: 012-HPF-22-UK-4

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HPF series

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OD 6" (152 mm)**

TECHNICAL DATA

MAX. WORKING TEMPERATURE

Hardware PP: 82 °C

Hardware Nylon: 121 °C

DIFFERENTIAL PRESSURE

Cartridge replacement:

1.5 bar @ 20 °C

Max. allowable:

PP hardware:

3.5 bar @ 82 °C

Nylon hardware:

3.5 bar @ 121 °C

CONSTRUCTION MATERIALS

Filter media:

- Polypropylene
- Fiberglass/polyester/nylon

Hardware:

- Polypropylene
- Nylon + stainless steel
(only with fiberglass media)

Gaskets:

- Buna-n
- EPDM (standard)
- Viton
- Silicone
- FEP

DIMENSIONS

External diameter:

6" (152 mm)

Length:

20" (510 mm)

40" (1020 mm)

60" (1520 mm)

80" (2040 mm)

FILTERING AREA

Standard pleated

20": 2.97 m²

40": 5.94 m²

60": 8.91 m²

80": 11.88 m²

Depth pleated

20": 1.12 m²

40": 2.24 m²

60": 3.36 m²

80": 4.48 m²

Flow-rate / Delta-P data - DHC:

Filtration (µm)	Polypropylene			PP depth pleated	
	40"	60"	80"	40"	60"
0.6	25	38	50	20	30
1	30	45	60	24	36
3	35	55	70	30	45
5	50	75	100	40	60
10	60	90	105	50	75
25	65	95	105	55	83
≥50	70	105	110	60	90

Fiberglass	
40"	60"
30	45
35	55
40	60
60	90
65	95
70	105
70	105

Liquid flow-rate (m³/h) - Clean Delta-P 0.12 bar - DHC (gr)

Flow-rate valid for clean water and air, reduce the flow-rate according to the application.

Filtration (µm)	DHC		
	40"	60"	80"
0.6	4500	6500	9000
1	6000	9000	12000
3	6000	9000	12000
5	6000	9000	12000
10	6400	9600	12800
25	6400	9600	12800
≥50	6400	9600	12800



Filtration efficiency / Available filtration rating:

Filtration (µm)	Efficiency			
	Liquids		Gas	
	99.98%	90%	99.98%	90%
0.6	0.6 µm	0.25 µm	0.2 µm	< 0.1 µm
1	1 µm	0.45 µm	0.3 µm	0.15 µm
3	3 µm	0.80 µm	1 µm	0.5 µm
5	5 µm	2.0 µm	2 µm	0.8 µm
10	10 µm	4.5 µm	3 µm	1 µm
25	25 µm	10 µm	5 µm	3 µm
50	50 µm	25 µm	10 µm	5 µm
80	80 µm	60 µm	20 µm	10 µm

Available filtration rating				
Filter media				
P	G	A	E	DP
X	X	X		X
X	X	X		X
X	X	X	X	X
X	X	X	X	X
X	X	X	X	X
X			X	X
X			X	

Filtration efficiency of liquids defined with Multipass ISO 4572 test

Contact us for any further information.

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

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