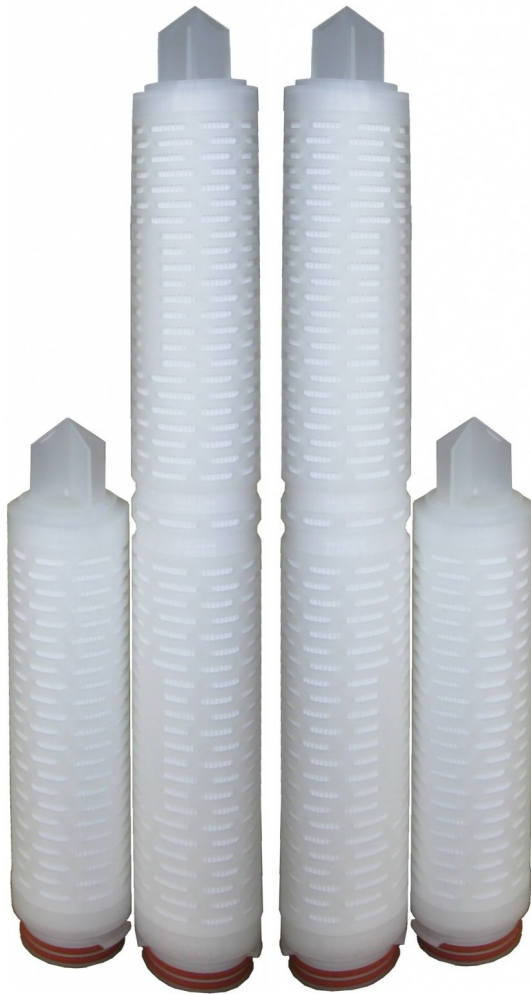


# AFP series

FILTERING CARTRIDGES  
ABSOLUTE - PLEATED  
OD 2.7" (68 mm)



## MAIN APPLICATIONS:

- DESALINATION
- WATER TREATMENT
- FINE CHEMICAL
- PETROCHEMICAL
- OIL & GAS
- FOOD & BEVERAGE
- POWER GENERATION
- PAINT AND RESINS
- PHARMACEUTICAL
- MICROELECTRONIC
- GALVANIC
- STEEL MILL
- GENERAL INDUSTRY

## CHARACTERISTICS:

- High filtration area
- High flow-rate
- High dirt holding capacity
- Resistant to contaminant unloading even at high Delta-P
- Filtration direction from out to in
- Six end cap configurations available
- Four different filter media available
- Pure polypropylene hardware
- Wide range chemical compatibility
- Suitable for both liquid and gas filtration
- Fusion bonding assembly
- 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 120  $\mu\text{m}$

# ASCO FILTRI

a **mott** company



Brochure no.: 010-AFP-22-UK-4

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# AFP series

**FILTERING CARTRIDGES  
ABSOLUTE - PLEATED  
OD 2.7" (68 mm)**

## TECHNICAL DATA

**MAX. WORKING TEMPERATURE**  
80 °C (polypropylene core)  
95 °C (stainless steel core)

**STERILIZATION/ SANITIZATION**  
- Autoclaving at 121 °C for 30'  
without Delta-P  
- In hot water at 80 °C for 60'  
in line

**DIFFERENTIAL PRESSURE**  
Cartridges replacement:  
2.0 bar @ 25 °C  
Max. allowable:  
5.0 bar @ 25 °C

**CONSTRUCTION MATERIAL**  
Filter media:  
- Polypropylene  
- Fiber glass  
- Polyester  
- Stainless steel mesh

**Hardware:**  
- Polypropylene

**Gaskets:**  
- Buna-n  
- EPDM  
- Viton  
- Silicone  
- FEP  
- PTFE (only DOE)

**DIMENSIONS**  
External diameter:  
2.7" (68 mm)  
Internal diameter:  
1.1" (28 mm)  
1.4" (36 mm) (only cod. 9L)  
Length:  
10", 20", 30", 40", 50" 60"

**FILTERING AREA x 10"**  
Polypropylene core:  
0.6 ÷ 5 µm: 0.5 m<sup>2</sup>  
10 ÷ 80 µm: 0.6 m<sup>2</sup>  
Stainless steel core:  
0.6 ÷ 5 µm: 0.57 m<sup>2</sup>  
10 ÷ 80 µm: 0.68 m<sup>2</sup>

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

Filtration (µm)	Polypropylene			Fiber glass			PP / GF	DHC
	Liquids			Liquids			Air	
	1 cP	10 cP	25 cP	1 cP	10 cP	25 cP	0.018 cP	
0.6	1.00	0.10	0.06	1.20	0.12	0.05	50	60
1	1.80	0.20	0.10	1.50	0.15	0.06	60	70
3	1.90	0.20	0.10	2.00	0.20	0.08	70	75
5	2.00	0.35	0.15	2.00	0.20	0.08	70	75
10	2.00	0.64	0.40	2.30	0.23	0.09	70	80
25	2.50	1.10	0.68	2.50	0.25	0.10	70	80
50	2.60	1.12	0.70	-	-	-	70	85
≥ 80	2.80	1.20	0.75	-	-	-	70	85

Liquids flow-rate (m<sup>3</sup>/h) - Air flow-rate (Am<sup>3</sup>/h) - Clean Delta-P 0.1 bar. Flow-rate valid for 10" long cartridges.  
For gas different than air: DP = 0.1 x gas viscosity (cP) / 0.018 cP (air).  
Flow-rate valid for clean water and air, reduce the flow-rate according to the application.

## 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
120	120 µm	100 µm	100 µm	75 µm

Filtration efficiency of liquids defined with Multipass ISO 4572 test

Filter media	Filtration rating (µm)								
	0.6	1	3	5	10	25	50	80	120
Polypropylene	X	X	X	X	X	X	X	X	X
Fiberglass	X	X	X	X	X	X			
Polyester			X	X	X	X	X	X	

## Ordering information:

AFP	P	001	-	40		E	8	F
<b>Filter media:</b> P: polypropylene G: fiberglass E: polyester M: PP mesh S: 316-SS mesh				<b>Length:</b> 10: 10" 20: 20" 30: 30" 40: 40" 50: 50" 60: 60"		<b>Gaskets:</b> N: Buna-n E: EPDM V: Viton S: Silicone F: FEP T: PTFE	<b>End caps:</b> 0: DOE 3: SOE 222 / flat 6: SOE 226 / flat 7: SOE 226 / fin 7L: SOE 226 / fin (ID 36) 8: SOE 222 / fin 9: SOE 225 / fin 9L: SOE 225 / fin (ID 36)	
<b>Filtration rating:</b> 0.6: 0.6 µm 001: 1 µm 003: 3 µm 005: 5 µm 010: 10 µm 025: 25 µm 050: 50 µm 080: 80 µm 120: 120 µm				<b>Core material:</b> : polypropylene S: 316-SS			<b>Options</b> : No F: Food grade	

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

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