

# 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 caps configuration 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 80 µm



Brochure no.: 010-AFP-15-UK-1

# ASCO FILTRI

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## TECHNICAL DATA

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

**STERILIZATION/ SANITIZATION**  
 - Autoclaving at 120 °C for 30' without Delta-P  
 - In hot water at 80 °C per 60' in line

## DIFFERENTIAL PRESSURE

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

## CONSTRUCTION MATERIAL

- Filter media:**
- Polypropylene
  - Fibre 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) (solo 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			Fibre 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	400	[gr]
1	1.80	0.20	0.10	1.50	0.15	0.06	500	60
3	1.90	0.20	0.10	2.00	0.20	0.08	550	70
5	2.00	0.35	0.15	2.00	0.20	0.08	550	75
10	2.00	0.64	0.40	2.30	0.23	0.09	550	80
25	2.50	1.10	0.68	2.50	0.25	0.10	550	80
50	2.60	1.12	0.70	-	-	-	550	85
80	2.80	1.20	0.75	-	-	-	550	85

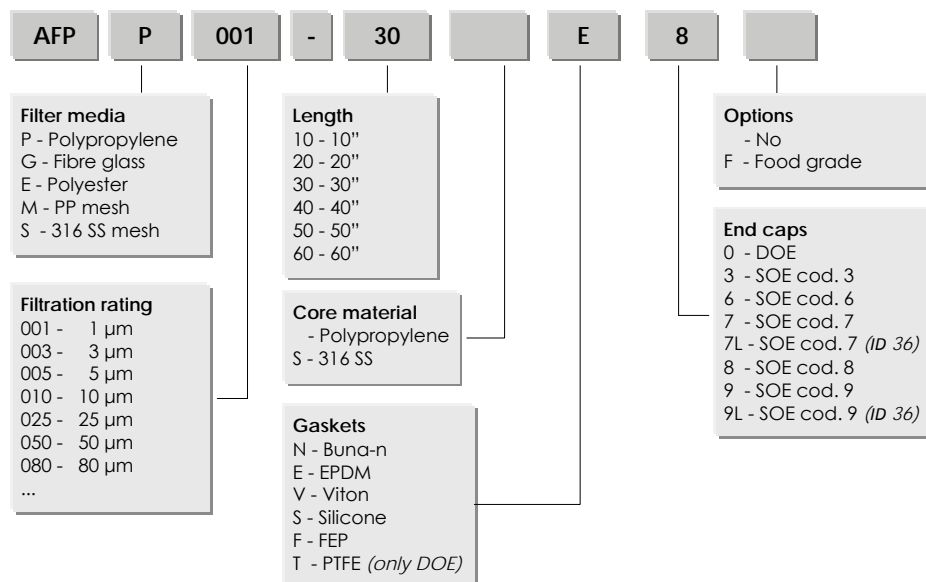
Liquids flow-rate (m<sup>3</sup>/h) - Air flow-rate (Nm<sup>3</sup>/h @ 7 barg) - Clean Delta-P 0.1 bar  
 For gas different than air: DP = 0.1 x gas viscosity (cP) / 0.018 cP (air).  
 Flow-rate valid for clean water and air, reduce the flow-rate according to the application.

## Filtration efficiency:

(µm)	Efficiency		Filtration rating (µm)								
	99.98%	90%	0.6	1	3	5	10	25	50	80	
0.6	0.6 µm	0.25 µm	X	X	X	X	X	X	X	X	X
1	1 µm	0.45 µm	X	X	X	X	X	X			
3	3 µm	0.80 µm			X	X	X	X	X	X	X
5	5 µm	2.0 µm				X	X	X	X	X	X
10	10 µm	4.5 µm					X	X	X	X	X
25	25 µm	10 µm						X	X	X	X
50	50 µm	25 µm							X	X	X
80	80 µm	60 µm								X	X

Filtration efficiency for liquids defined with Multipass ISO 4572 test

## Ordering information:



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

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