

Series PO-PE

FILTER BAGS

FELT

SIZE 1-2-3-4



MAIN APPLICATIONS:

- DESALINATION
- WATER TREATMENT
- FINE CHEMICAL
- PETROCHEMICAL
- OIL & GAS
- FOOD & BEVERAGE
- POWER GENERATION
- PAINTS AND RESIN
- PHARMACEUTICAL
- MICROELECTRONIC
- GALVANIC
- GENERAL INDUSTRY

CHARACTERISTICS:

- Needle felt construction
- Fibre free surface treatment
- Silicon oil free
- Approved FDA material (*polypropylene and polyester*)
(FDA 21 CFR 176.170 and FDA 21 CFR 177.1520@ 3.2a)
- 1935/2004/CE certification (*polypropylene and polyester*)
- Fully thermo-welded construction
- Rounded bottom to fit perfectly in the restrainer basket
- All configurations supplied with handles for easy change out
- Material and filtration rating stamped on the filter media
- Polypropylene PolyformSEAL™ seal ring
- Stainless steel or tinned steel seal ring as option
- Available in five different materials
- Filtration rating from 1 to 200 µm

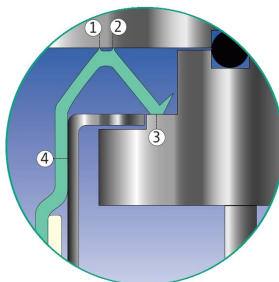
Rounded bottom:

Best fitting in the restrainer basket



PolyformSEAL™ seal:

4 points positive seal for by-pass free filter bag



PolyformSEAL™ seal:

Thermo-welded seal ring for by-pass free filter bag



ASCO FILTRI

a **mott** company

ASCO Filtri S.p.A.

Viale delle Scienze, 8

20082 Binasco (MI) - Italia

Tel.: +39 02 89703.1

Fax: +39 02 89703.410

E-mail: info@ascofiltri.com

Web: www.ascofiltri.com

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TECHNICAL DATA

WORKING TEMPERATURE

- Polypropylene 93 °C
- Polyester 135 °C
- Nylon 135 °C
- Nomex 190 °C
- PTFE 260 °C

DIFFERENTIAL PRESSURE

Filter bag replacement:

1.7 bar @ 25 °C

Max. allowable:

3.5 bar @ 25 °C

CONSTRUCTION MATERIALS

- Polypropylene
- Polyester
- Polyester food grade
- Nylon
- Nomex (Aramide)
- PTFE

DIMENSIONS

- Size 1: Dia. 178 x L 419 mm
- Size 2: Dia. 178 x L 813 mm
- Size 3: Dia. 102 x L 203 mm
- Size 4: Dia. 102 x L 356 mm

FILTERING AREA

- Size 1: 0.23 m²
- Size 2: 0.45 m²
- Size 3: 0.06 m²
- Size 4: 0.11 m²

VOLUME

- Size 1: 6.8 liters
- Size 2: 15.1 liters
- Size 3: 1.3 liters
- Size 4: 2.3 liters

Flow-rate / Delta-P data:

Viscosity [cP]	Filtration rating [µm]					
	1	5	10	25	100	200
1	18.0	18.0	18.0	18.0	18.0	18.0
20	11.3	18.0	18.0	18.0	18.0	18.0
30	7.72	14.5	18.0	18.0	18.0	18.0
40	6.13	10.9	15.9	18.0	18.0	18.0
60	4.77	9.08	13.6	18.0	18.0	18.0
80	3.86	6.81	10.2	17.0	18.0	18.0
100	3.18	5.45	7.72	12.5	18.0	18.0
200	1.48	2.95	4.09	6.81	9.54	12.5
400	0.84	1.57	2.72	4.01	5.68	7.04
500	0.64	1.16	1.70	2.95	4.01	5.00
800	0.45	0.82	1.25	2.04	2.95	3.86
1000	0.39	0.68	1.02	1.66	2.27	3.41
1500	0.30	0.52	0.73	1.20	1.59	2.16
2000	0.20	0.40	0.57	0.86	1.25	1.64
4000	0.14	0.27	0.36	0.61	0.79	1.09
6000	0.09	0.18	0.27	0.43	0.59	0.77
8000	0.07	0.13	0.19	0.32	0.41	0.57
10000	0.06	0.10	0.16	0.27	0.36	0.48

Zone	Recommended
	Good
	Poor
	Not recommended

Liquids flow-rate (m³/h) - Size 1 bag - Initial Delta-P 0.07 bar.

For size 2 bags multiply flow-rate x 1.88.

For size 3 bags multiply flow-rate x 0.28.

For size 4 bags multiply flow-rate x 0.44.

Flow-rate valid for clean liquids, reduce the flow-rate according to the application.

Available filtration rating:

Media	Rating								
	1	3	5	10	25	50	75	100	200
Polypropylene	X	X	X	X	X	X		X	X
Polyester	X		X	X	X	X	X	X	X
Nylon			X	X	X	X		X	
Nomex			X	X	X	X	X		
PTFE			X	X	X	X			

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

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