



#### FEATURES:

- High mechanical strength
- High temperature resistance
- Excellent chemical compatibility
- Self-supporting construction
- Back-washable
- No media migration
- Filtration direction from both sides (in-to-out or out-to-in)
- Thirteen end cap configurations available
- Seven different construction materials available
- Porous tube available isopressed or rolled and welded
- Suitable for both liquid and gas filtration
- 1935/2004/CE certification available upon request
- Filtration rating from 0.2 to 60  $\mu\text{m}$



Brochure no.: 023-SP-22-UK-4

# SP series

FILTERING CARTRIDGES  
SINTERED POWDER  
OD 2.4" (60 mm)

#### MAIN APPLICATIONS:

- FINE CHEMICALS
- PETROCHEMICAL
- OIL & GAS
- FOOD & BEVERAGE
- POWER GENERATION
- PAINTS AND RESINS
- PHARMACEUTICAL
- MICROELECTRONICS
- GENERAL INDUSTRY

# ASCO FILTRI

a **mott** company

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# SP series

**FILTERING CARTRIDGES  
SINTERED POWDER  
OD 2.4" (60 mm)**

## TECHNICAL DATA

### DIFFERENTIAL PRESSURE

*Cartridge replacement:*  
**2.0 bar @ 25 °C**

*Max. allowable:*  
**6.0 bar (out-to-in)  
16 bar (in-to out)**

### WORKING TEMPERATURE

**400 °C (316L SS)  
600 °C (Inconel)  
450 °C (Hastelloy C276)  
250 °C (Bronze)**

### CONSTRUCTION MATERIALS

*Filter media:*

- 316L-SS
- Inconel
- Hastelloy C276 / C22
- Titanium
- Monel 400
- Bronze

*Gaskets:*

- Buna-n max. 120 °C
- EPDM max. 120 °C
- Viton max. 230 °C
- Silicone max. 230 °C
- FEP max. 250 °C
- PTFE max. 250 °C
- KlingerSil max. 360 °C

### DIMENSIONS

*External diameter*

- 50, 60 (std.)
- 64 (Bronze and SPW inox)
- 80 mm

*Length:*

da 5" a 80"

### FILTERING AREA

- OD 50 mm: 0.039 m<sup>2</sup> x 10"
- OD 60 mm: 0.047 m<sup>2</sup> x 10"
- OD 64 mm: 0.050 m<sup>2</sup> x 10"
- OD 80 mm: 0.063 m<sup>2</sup> x 10"

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

SPK - Isopressed tube					
Filtration (µm)	Thk. (mm)	Liquids		Gas	
		90%	98%	90%	99.9%
1	3	1 µm	3 µm	0.1 µm	0.3 µm
3	3	3 µm	5 µm	0.2 µm	0.5 µm
5	3	5 µm	10 µm	0.5 µm	1 µm
10	3	10 µm	15 µm	1 µm	2 µm
20	3	20 µm	30 µm	2 µm	5 µm
40	3	40 µm	60 µm	3 µm	10 µm
60	3	60 µm	90 µm	5 µm	15 µm

SPW - Rolled and welded tube					
Filtration (µm)	Thk. (mm)	Liquids		Gas	
		90%	99%	90%	99.9%
0.2	0.99	0.5 µm	0.9 µm	0.1 µm	< 0.2 µm
0.5	1.19	1 µm	1.7 µm	0.2 µm	0.3 µm
1	1.19	1.5 µm	2.2 µm	0.7 µm	1 µm
2	1.57	4 µm	5.5 µm	0.3 µm	2 µm
5	1.57	5 µm	8 µm	0.8 µm	5 µm
10	1.57	10 µm	15 µm	4.5 µm	13 µm
20	1.57	20 µm	25 µm	8 µm	20 µm
40	1.98	25 µm	35 µm	12 µm	45 µm

SPK - Isopressed tube				
Filtration (µm)	Liquids	Air	Steam	
			2 bar	6 bar
	1 cP	0.018 cP	0.013 cP	0.012 cP
1	0.12	7.5	9	20
3	0.4	12.5	20	45
5	1.7	25	50	120
10	1.8	25	50	120
20	1.8	25	55	130
40	1.8	25	60	130
60	1.8	25	60	130

*For rolled and welded tube cartridges flow-rate contact Asco Filtri.*

*Liquid flow-rate (m3/h) - Air flow-rate (Am3/h) - Steam flow-rate (kg/h) - Clean Delta-P 0.1 bar.  
Flow-rate data valid for 10" long cartridge, OD 60 and 64 mm. For different diameter contact Asco Filtri.  
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.*

### Fluids temperature limitation:

Material				
316L-SS	Inconel	Hastelloy C276	Bronze	
400 °C	600 °C	450 °C	250 °C	Oxidizing atmosphere
480 °C	815 °C	540 °C	300 °C	Reducing atmosphere

**Contact us for any further information.**

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

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