

# EPM.SK (KFM.SK)

## Polyamide and Fiberglass membrane Filter Cartridges and Capsules

For efficient clarifying filtration of liquids with high concentration of particles and microorganisms in various application fields



### Description

EPM.SK is a composite membrane cartridge that combines mechanisms of depth and membrane filtration. The basis of EPM.SK is the polyamide hydrophilic membrane combined with a microfiber depth prefilter. EPM.SK is developed for application in the processes that require significant reducing of contamination and bioburden, providing high performance and reliable removal of particles and microorganisms of the specified size. EPM.SK filters have high flow rate, increased contamination capability and wide chemical compatibility.

### Materials

Membrane	Nylon <sub>6+66</sub>
Prefilter	Fiberglass
Draining layer	Polypropylene
Body, End parts	Polypropylene
O-rings	Silicone (viton, EPDM are available on request)

### Integrity test values of EPM.SK with the height of 250 mm

Brand	Max. diffusion, ml/min	Test pressure, MPa (bar)
EPM.SK-/065	30	0.11 (1.1) at 20 °C
EPM.SK-/080	30	0.08 (0.8) at 20 °C
EPM.SK-/100	30	0.06 (0.6) at 20 °C

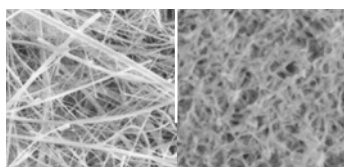
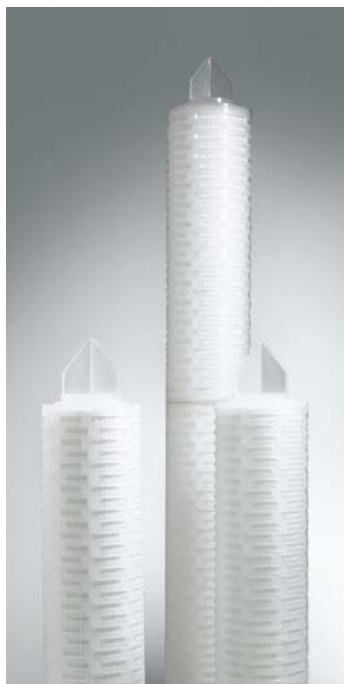
### Operational parameters

Maximal differential pressure	0.5 MPa at 20 °C, 0.2 MPa at 80 °C (Filter Cartridges) 0.4 MPa at 20 °C, 0.2 MPa at 60 °C (Capsules)
Maximal reverse differential pressure	0.1 MPa at 20 °C
Maximal operational temperature	80 °C (Filter Cartridges), 60 °C (Capsules)

### Sterilization and washing

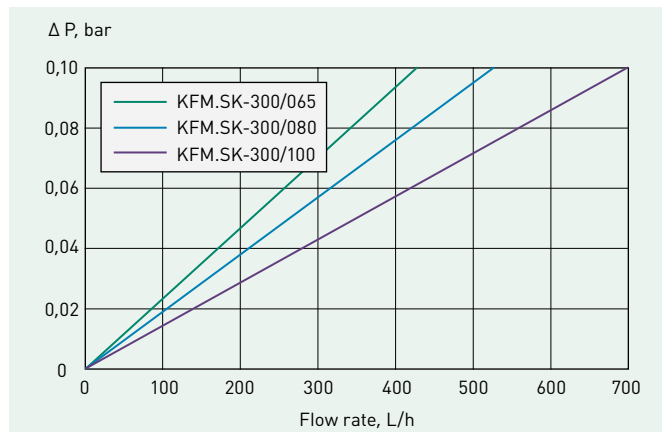
Direct flow wash out	Hot water (up to 80 °C) and chemical agents
Autoclaving	121 °C, 0.12 MPa, 30 min, 20 cycles (Filter Cartridges) 121 °C, 0.12 MPa, 30 min, 5 cycles (Capsules)
Steam sterilization*	121 °C, 0.12 MPa, 30 min, 10 cycles

\* Only for filter cartridges

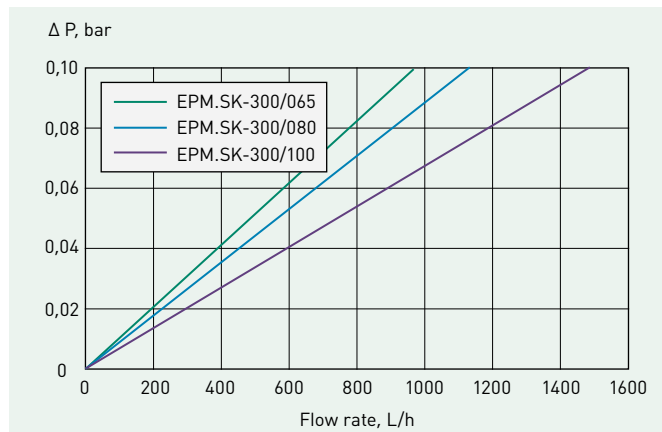


Flow Rates of EPM.SK and KFM.SK

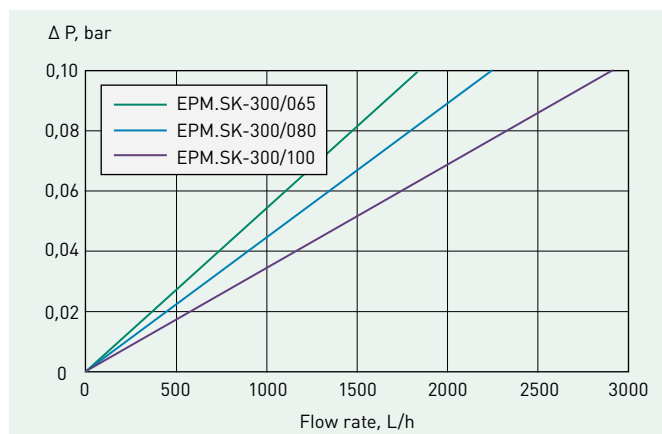
H = 60 mm



H = 125 mm



H = 250 mm



Specifications

Micron rating

- 3.0/1.0 μm
- 3.0/0.65 μm
- 33.0/0.8 μm

Nominal Dimensions and Filter Areas

Filter Cartridges

H, mm	D, mm	S, m <sup>2</sup>
125 (5")	70	0.25
250 (10")	70	0.5
500 (20")	70	1.0
750 (30")	70	1.5
1000 (40")	70	2.0

Capsule filters

H, mm	D, mm	S, m <sup>2</sup>
250 (10")	94	0.5
125 (5")	92	0.25
60 (2,5")	92	0.1

H - height  
 D - diameter  
 S - filtration surface area

Filter Cartridges ordering information

EPM.SK	300/100	D1	250	M
Brand	Micron rating prefilter/filter	Adapter code	Cartridge height	Application
	Code	D	100 mm (4")	M - medicine and biopharmaceutical industry
	300/100 3/1.0 μm	D1	125 mm (5")	
	300/080 3/0.8 μm	A	250 mm (10")	P - food industry
	300/065 3/0.65 μm	A1	500 mm (20")	E - microelectro- nics industry
		A4	750 mm (30")	
		B	1000 mm (40")	
		B(SI)		

Capsules ordering information

KFM.SK	300/080	K	60
Brand	Micron rating prefilter/filter	Connection type	Cartridge height
	Code	K - sanitary flange connection	60 mm
	300/100 3/1.0 μm		125 mm
	300/080 3/0.8 μm	P - thread tapered connection	250 mm
	300/065 3/0.65 μm		