



SME-X sterilizing grade double PES membrane filters

Efficient heavy-duty filtration of valuable liquids in food and pharmaceutical applications

SME-X filters provide extremely reliable and safe microbiological reduction in critical applications. It has an extended service life thanks to its outstanding dirt holding capacity. Its filter media consist of a double layer hydrophilic PES membrane with support layers integrated into a robust cage with reinforced core and end cap, making it suitable for nearly all operation, service and cleaning conditions.



Key Features

- Double membrane for extremely safe and reliable operation
- Wide chemical compatibility
- No pre-wetting required, easy to use
- Reliable reduction of microorganisms
- Reinforced end cap

Applications

- Cold stabilization of alcoholic beverages
- Sterilization of bottled and process water
- Final filtration in beer and wine production
- Final filtration of beverages
- Cold sterilization of beer

Quality first

- Tested with *Brevundimonas diminuta* (ATCC 19146) at 10^7 - $10^{10}/\text{cm}^2$ (> 99.99999%)
- Manufacturing acc. ISO 9001 in a controlled environment
- Comply with EU Regulation No. 1935/2004
- Materials used meet FDA title 21 and USP Class VI
- 100% integrity tested
- Full traceability

Protecting process, products and people

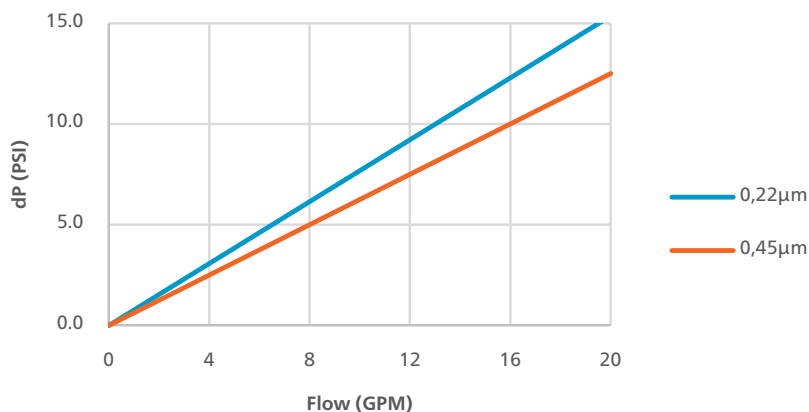
Atlas Copco's process filters optimize your productivity while protecting your process, product and consumers. Our portfolio of cartridges and housings covers all your filtration needs. The products are made from proven, high quality materials from reputable suppliers and manufactured in a controlled environment subjected to strict QA/QC procedures.



Technical specifications

Materials of construction	
Filter media	Asymmetric + symmetric polyethersulphone membrane
Support	Polypropylene
Core/Cage	Polypropylene
End caps	Polypropylene + reinforcement
Dimensions	
Diameter	2.72"
Typical surface area	6 ft ² (2.72" - 10")
Integrity testing	
Bubble point	> 23 PSI (0.45 µm)
Diffusion flow	≤ 45 ml/min/30" @ 17 PSI (0.45 µm)
Operating conditions	
Max. temperature	176°F
Max. differential pressure forward flow	58 PSI @ 70°F / 35 PSI @ 194°F
Max. differential pressure reverse flow	29 PSI / 70°F
Recommended change out differential pressure	36 PSI
SIP/CIP	
Steam sterilization	≤ 200 cycles @ 275°F for 30 minutes @ dP 4 PSI
Hot water sanitization	185°F for 30 minutes @ dP 29 PSI
Cleaning solution	2% NaOH @ < 149°F

Flow rate



Note: 10" cartridge tested with water @ 68°F, 1.005 cP (typical flow rate)

Product configuration

Series	Rating	Length	End cap	Seal
SME-X	0.22 µm	10"	C2 = 2 x 226 O-ring + 2 tabs/Flat	S = Silicone
	0.45 µm	20"	C3 = 2 x 222 O-ring/Flat	E = EPDM
	0.65 µm	30"	C7 = 2 x 226 O-ring + 2 tabs/Fin	V = Viton
		40"	C8 = 2 x 222 O-ring/Fin	
			C28 = 2 x 222 O-ring + 3 tabs/Fin	
			DOE = Flat + gasket/Flat + gasket	

Example: SME-X 0.65 µm 30" C8 S

