



# ESLON AV PTFE Filter Cartridges

- Air / Gas Filters
- Expanded PTFE Membrane

ESLON AV sterilization filter cartridges offer exceptional filtration performance while providing the highest levels of biosecurity throughout the process industry.

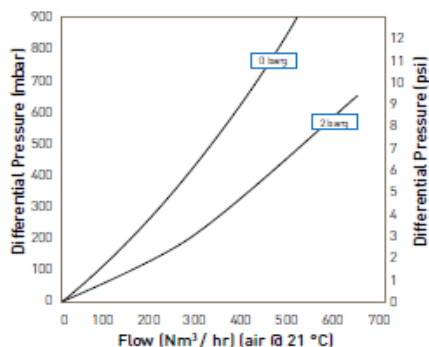
ESLON AV sterilization filter cartridges offer exceptional filtration performance while providing the highest levels of biosecurity throughout the process industry. Operating at ambient temperature conditions, ESLON AV filter cartridges provide a cost-effective filtration solution. A unique polypropylene prefilter layer extends service life in heavily contaminated environments. ESLON AV filter cartridges also utilize a well-proven inherently hydrophobic expanded PTFE membrane with an absolute removal rating of 0.01 micron for gas applications. This ensures the removal of all airborne bacteria, viruses and bacteriophage.

### Features and Benefits

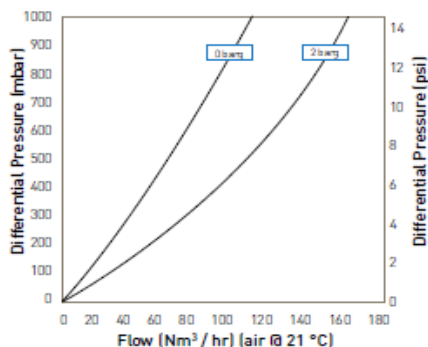
- Assured biosecurity with absolute rated filtration
- High flow rates with low pressure drops
- High voids volume ePTFE membrane
- Unique prefilter layer
- Optimum pleat configuration
- Integrity testable by all methods including water intrusion test



### Performance Characteristics



10" Size (250 mm) Cartridge



B Size (65 mm) Cartridge

## Specifications

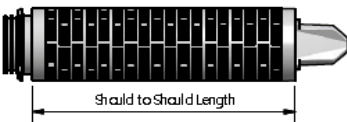
### Materials of Construction

■ Membrane:	Expanded PTFE
■ Upstream Support:	Polypropylene
■ Downstream Support:	Polypropylene
■ Inner support Core:	(316L Stainless Steel)
■ Outer protection Cage:	Polypropylene
■ End Caps:	Polypropylene
■ End Cap Insert:	Polysulphone
■ Standard o-rings:	Silicone

### Nominal Dimensions

Outside Diameter : 71.5mm  
 Inner Diameter : DOE(27.0mm), SOE(31.0mm)  
 S-S Length of 10" Cartridge : 237.5mm  
 S-S Length of 20" Cartridge : 485.0mm  
 S-S Length of 30" Cartridge : 732.5mm  
 S-S Length of 40" Cartridge : 980.0mm

\* S-S Length



### Effective Filtration Area

0.71sqm / 10" cartridge

### Recommended Operating Conditions

The maximum differential pressure in direction of flow (outside to in) is 3.5 barg (50.76 psig) at 60 °C (140 °F).

The maximum recommended continuous inlet air temperature is 60 °C (140 °F).

### Food Contact Compliance

All materials of construction are FDA listed and conform to the relevant requirements of 21 CFR Part 177.

### Biological Safety

All materials of construction conform to the relevant requirements of USP Class VI-121 °C Plastics.

### Cleanliness

TOC (USP 643) : <500ppb  
 Conductivity (USP 645) : <1.3uS/cm  
 Endotoxin (USP85) : <0.25EU/ml

### Integrity Test Data

All cartridges are integrity tested prior to despatch by the pressure decay and aerosol challenge test methods. Values are for cartridges wetted with 60 / 40 IPA / Water.

Cartridge	Test Pressure		Diffusional Flow [ml/min]	Water Intrusion Test Pressure		Water Intrusion [ml/10min]	Water Flow [µl/10min]
	[bar]	[psi]		[barg]	[psig]		
10"	0.8	11.6	16.50	2.5	36.2	13.5	3,857
20"	0.8	11.6	33.00	2.5	36.2	27	7,714
30"	0.8	11.6	49.50	2.5	36.2	40.5	11,571
40"	0.8	11.6	66.00	2.5	36.2	54	15,428

## Ordering Information

E L A V -	-	A
<b>Nominal Length</b>	<b>Micron Rating</b>	<b>Endcaps</b>
1 : 10" (250mm) 2 : 20" (500mm) 3 : 30" (750mm) 4 : 40" (1000mm)	02 : 0.2micron	C : 226INS/FIN D : 222/FIN E : 222/FLAT F : 226INS/FLAT
		<b>Seals</b>
		S : Silicone E : EPDM V : Viton P : FTFE Encapsulated Silicone



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