

# Cartridges Filter PESDL



## PESDL Pleated Filter Cartridge

Dorsan® PESDL cartridge filters have a built-in pre-filter membrane in front of the end-filter membrane. The unique anisotropic Polyethersulfone pre-filter membrane reduces the plugging rate of end-filter membrane effectively.

The optimized Double layer PES cartridge filters can provide longer service time than generic cartridge filters in most applications. The line of cartridges PES (polyethersulfone) Dorsan® has been manufactured with hydrophilic and asymmetric filter membranes. Manufactured following all the requirements of the FDA for the food industry.

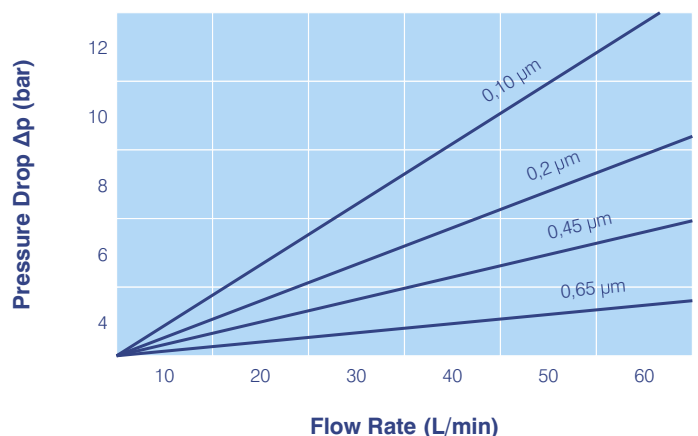
The membrane of polyethersulfone (PES) has characteristics of a very low protein retention. Each cartridge is examined one by one to assure the quality and its integrity. The process is performed with deionized water to ensure the lowest levels of extractables. Our cartridges allow high flow rates and excellent particles retention capacity.

### Integrity Test Data

Pore Size $\mu\text{m}$	Min. Bubble Point, 25°C	Max. Diffusion, 25°C
0.1	4.2 bar	$\leq 16 \text{ mL/min@ } 3.2 \text{ bar}$
0.2	3.4 bar	$\leq 16 \text{ mL/min@ } 2.6 \text{ bar}$
0.45	1.8 bar	$\leq 16 \text{ mL/min@ } 1.4 \text{ bar}$
0.65	1.7 bar	$\leq 16 \text{ mL/min@ } 1.3 \text{ bar}$

### Aplicaciones

- Wine
- Beer
- Peptone supplemented culture media
- Serum containing cell culture media
- Ophthalmic solutions
- Ultrapure water
- High purity chemicals



**DORSAN**®  
LIVING FILTRATION

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## Ordering Information

	Pore Size $\mu\text{m}$	D	Length"	E	Configurations	O-Rings/Gaskets	Insertions
DPESDL	0.2	D	10	E	Blank = DOE	B = Buna-N	R = Inox
	0.45	D	20	E	1 = DOE Flat Gasket	S = Silicona	
	0.65	D	30	E	2 = 222 w/Flat Cap	P = Polyfoam Joints	
		D	40	E	3 = 222 w/Fin	E = EPDM	
				E	6 = 226 w/Flat Cap	V = Viton®	
				E	7 = 226 w/Fin	T = Teflon® encapsulated Viton	
				E	10 = 226 w 3 flange/Fin		

### Sterilization

**Autoclave:**

124°C, 30 min, 30 cycles  
134°C, 30 min, 20 cycles

**Steam In-Place:**

124°C, 30 min, 30 cycles,  $\Delta p < 0.5$  bar  
134°C, 30 min, 20 cycles,  $\Delta p < 0.5$  bar

### Materials of Construction

**Filter Media:** Polyethersulfone

**Core:** Polypropylene

**Support Layers:** Polypropylene

**Cage/End Caps:** Polypropylene

**Adaptor:** Polypropylene

**O-rings:** EPDM / Silicone

### Safety

**Bacterial Endotoxin:**

<0.25 EU/mL

**Extractables:**

<40 mg/10"

### Operating Conditions

**Temperature:** 1.9 bar@ 82°C

**Max.  $\Delta p$  Forward:** 5.2 bar@ 25°C

**Max.  $\Delta p$  Reverse:** 2.1 bar@ 25°C

**Pressure:** 2.4 bar

Note. We reserve the right to change these informations without any previous notice.

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