

# Sanitary Ultrafiltration Elements

3,000 to 10,000 Dalton Molecular Weight Cut-Off

**Polymeric Elements**

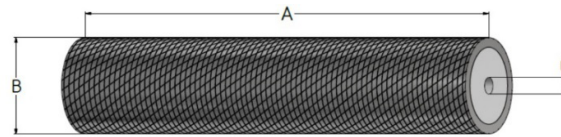
## UF Membranes

Membrane	Material	MWCO	Max. Process Temperature	pH Process Limits**	CIP Max Temperature	CIP pH Limitations**
PE2	Polyethersulfone	3,000 Da	131°F (55°C)	2 - 10	122°F (50°C)	1.8 - 11
PE3	Polyethersulfone	4,000 Da	131°F (55°C)	2 - 10	122°F (50°C)	1.8 - 11
PE5	Polyethersulfone	5,000 Da	131°F (55°C)	2 - 10	122°F (50°C)	1.8 - 11
PE10	Polyethersulfone	10,000 Da	131°F (55°C)	2 - 10	122°F (50°C)	1.8 - 11
PE10HpHt	Polyethersulfone	10,000 Da	140°F (60°C)	2 - 10	185°F (85°C)	1.8 - 12.5
PE10HR	Polyethersulfone	10,000 Da	131°F (55°C)	2 - 10	122°F (50°C)	1.8 - 11

\*\*Consult factory for detailed cleaning instructions.

Complies with 3A sanitary standards, FDA (CFR Title 21), EU Commission Directive 2002/72/EC.

## Element Specifications



Element Size <sup>1</sup>	Feed Spacer (mil)	Membrane Area		Element Cross Flow Rate <sup>2</sup>		Max. Element $\Delta P^2$		Element Diameter ("B")		Element Length ("A")		Permeate Tube Diameter ("C")	
		(ft <sup>2</sup> )	(m <sup>2</sup> )	(gpm)	(m <sup>3</sup> /hr)	(psi)	(bar)	(in)	(mm)	(in)	(mm)	(in)	(mm)
3838	31 (A)	73.4	6.8	25	5.7	15	1	3.8	97	38	965.2	0.83 (O)	21.1 (O)
	46 (E)	58.6	5.4	29	6.6	20	1.4	3.8	97	38	965.2	0.83 (O)	21.1 (O)
	65 (I)	47.5	4.4	33	7.5	25	1.7	3.8	97	38	965.2	0.83 (O)	21.1 (O)
	80 (K)	40.7	3.8	35	7.9	25	1.7	3.8	97	38	965.2	0.83 (O)	21.1 (O)
4338	31 (A)	97	9.0	29	6.5	15	1	4.3	109	38	965.2	0.83 (O)	21.1 (O)
	46 (E)	77.5	7.2	35	8	20	1.4	4.3	109	38	965.2	0.83 (O)	21.1 (O)
	65 (I)	62	5.8	66	15	25	1.7	4.3	109	38	965.2	0.83 (O)	21.1 (O)
	80 (K)	54	5.0	79	18	25	1.7	4.3	109	38	965.2	0.83 (O)	21.1 (O)
6338	31 (A)	220	20.4	74	16.8	15	1	6.3	160	38	965.2	1.139 (W)	28.9 (W)
	46 (E)	164	15.2	88	20.0	20	1.4	6.3	160	38	965.2	1.139 (W)	28.9 (W)
	65 (I)	143	13.3	99	22.5	25	1.7	6.3	160	38	965.2	1.139 (W)	28.9 (W)
	80 (K)	120	11.2	105	23.8	25	1.7	6.3	160	38	965.2	1.139 (W)	28.9 (W)
6438	31 (A)	220	20.4	74	16.8	15	1	6.4	163	38	965.2	1.139 (W)	28.9 (W)
	46 (E)	164	15.2	88	20.0	20	1.4	6.4	163	38	965.2	1.139 (W)	28.9 (W)
	65 (I)	143	13.3	99	22.5	25	1.7	6.4	163	38	965.2	1.139 (W)	28.9 (W)
	80 (K)	120	11.2	105	23.8	25	1.7	6.4	163	38	965.2	1.139 (W)	28.9 (W)

<sup>1</sup>Material: Polysulfone

<sup>2</sup>Recommended cross flow rates and  $\Delta P$  are dependent on various process parameters.