

S-Series Ultrafiltration (UF) Sanitary Spiral Elements

PES membrane with polypropylene support for food, dairy, beverage and other sanitary applications



S-Series ultrafiltration sanitary spiral elements are designed for high protein rejection and extended life in a wide range of food processing and dairy applications. The Polyethersulfone (PES) membrane provides excellent chemical and temperature resistance under a variety of process conditions.

The polypropylene supported membrane is ideal for challenging processes like high pH applications consistently above 10pH and where solvents present are not appropriate for polyester materials.

Membrane Available

Membrane Type	MWCO
SBA	5,000
SDA	10,000



Contact Information

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Benefits

- Designed to withstand challenging process conditions and daily cleaning cycles
- Element construction developed for enhanced durability and extended life
- Elements designed to conform to 3-A, FDA/CFR Title 21 & USDA standards
- Certified EU1935/2004EC & Plastics Regulation 10/2011
- Halal & Kosher certified
- Available in standard diameter or custom configurations for maximum performance and optimal cleaning
- Parker proprietary Crease Protector Technology (CPT)

Applications

High pH

- Cleaning Solution Clarification

Typical

- Sweet/acid whey concentration from 35-90%
- Whole milk concentration
- Skim milk concentration
- Production of fresh cheese
- Gelatin concentration
- Plasma fractionation
- Microorganism removal from surface water



ENGINEERING YOUR SUCCESS.

S-Series Ultrafiltration (UF) Sanitary Spiral Elements

Materials of Construction:

Membrane Polyethersulfone
 Support Material Polypropylene
 Permeate Tube Polysulfone

- Special element construction available for high temperature/ high pressure conditions/non-standard pH ranges & validation requirements
- Stainless steel permeate tube configurations available

Operating Parameters:

Maximum operating temperature 145°F (63°C)
 Typical inlet pressure** 100-140 psi (7-10 bar)
 pH range, continuous 3 - 12
 pH range, short-term cleaning*** 1.8 - 11.5 @ 122°F (50°C)
 Maximum chlorine concentration 180 ppm @ 9-11 pH
 Other oxidizing agents**** Consult factory

- * Temperature >40°C require reduced element differential
- ** Recommended cross flow rates and ΔP are dependent on various process parameters.
- *** Consult factory for cleaning chemical guidelines, and cleaning water quality documents
- **** Consult with a Parker technical representative for specific limitations.

Notes:

- Elements can be high temperature sanitized, consult a Parker technical representative for details
- Separate specifications are available including UF cleaning guidelines and water quality documents

Element Area

Model	Spacer																	
	Diamond												Parallel					
	P		B		O		L		A		M		Q		E		F	
	(28 mil) ft ²	(.7 mm) m ²	(31 mil) ft ²	(0.8 mm) m ²	(43 mil) ft ²	(1.1 mm) m ²	(65 mil) ft ²	(1.7 mm) m ²	(80 mil) ft ²	(2.0 mm) m ²	(100 mil) ft ²	(2.5 mm) m ²	(46 mil) ft ²	(1.2 mm) m ²	(65 mil) ft ²	(1.7 mm) m ²	(80 mil) ft ²	(2.0 mm) m ²
3838	62.6	5.8	60.21	5.6	48.4	4.5	35.4	3.3	29.5	2.7	23.6	2.2	48.4	4.5	35.4	3.3	29.5	2.7
38387	64	5.9	61.5	6.7	49.5	5.4	36.2	3.4	30.2	2.8	24.1	2.2	49.5	4.6	36.2	3.4	30.2	2.8
4333	72.9	6.8	70.1	6.5	58	5.4	42.4	3.9	35.1	3.3	28.3	2.6	58	5.4	42.4	3.9	35.1	3.3
4335	77.9	7.2	74.9	7.0	62	5.8	45.3	4.2	37.5	3.5	30.2	2.8	62	5.8	45.3	4.2	37.5	3.5
43355	80.1	7.4	76.1	7.1	63	5.9	45.9	4.3	38.1	3.5	30.7	2.9	63	5.9	45.9	4.3	38.1	3.5
4336	81.4	7.6	77.3	7.2	64	5.9	46.7	4.3	38.7	3.6	31.2	2.9	64	5.9	46.7	4.3	38.7	3.6
4338	85.5	7.9	82.2	6.7	68	5.4	49.6	4.6	41.1	3.8	33.1	3.1	68	6.3	49.6	4.6	41.1	3.8
5838	163.1	15.2	156.8	14.6	130.3	12.1	96.3	8.9	81.2	7.5	65.4	6.1	130.3	12.1	96.3	8.9	81.2	7.5
6338	203.3	18.9	195.5	18.2	161.5	15.0	119	11.1	82.9	7.7	66.8	6.2	161.5	15.0	119	11.1	82.9	7.7
6438	203.8	18.9	196	18.2	160.6	14.9	120.4	11.2	101.5	9.4	81.8	7.6	160.6	14.9	120.4	11.2	101.5	9.4
6538	206.2	19.2	198.3	18.4	162.9	15.1	120.4	11.2	101.5	9.4	81.8	7.6	162.9	15.1	120.4	11.2	101.5	9.4
7838	316	29.4	303.9	28.2	255	23.7	188.5	17.5	161.5	15.0	130.2	12.1	255	23.7	188.5	17.5	161.5	15.0
8038	333.9	31.0	319.2	29.7	264	24.5	196.4	18.3	165.7	15.4	133.6	12.4	264	24.5	196.4	18.3	165.7	15.4
8338	370.5	34.4	354.2	32.9	294.7	27.4	221	20.5	187.2	17.4	150.9	14.0	294.7	27.4	221	20.5	187.2	17.4
8438	374.3	34.8	357.8	33.3	297.7	27.7	223.4	20.8	189.2	17.6	152.5	14.2	297.7	27.7	223.4	20.8	189.2	17.6
9838	516.3	48.0	493.5	45.9	411.8	38.3	306	28.4	264.4	24.6	213.1	19.8	411.8	38.3	306	28.4	264.4	24.6

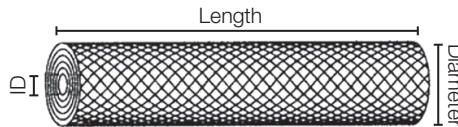


S-Series Ultrafiltration (UF) Sanitary Spiral Elements

Element Dimensions

Model	Diameter*		Length (± 1/16 in.)		Central Tube ID	
	(in)	(mm)	(in)	(mm)	(in)	(mm)
3838	3.78	96.0	38.00	965.2	0.830	21.1
38387	3.78	96.0	38.75	984.3	0.830	21.1
4333	4.31	109.5	33.00	838.2	0.830	21.1
4335	4.31	109.5	35.00	889.0	0.830	21.1
43355	4.31	109.5	35.50	901.7	0.830	21.1
4336	4.31	109.5	36.00	914.4	0.830	21.1
4338	4.31	109.5	38.00	965.2	0.830	21.1
5838	5.74	145.8	38.00	965.2	1.138	28.9
6338	6.30	160.0	38.00	965.2	1.138	28.9
6438	6.34	161.0	38.00	965.2	1.138	28.9
6538	6.38	162.1	38.00	965.2	1.138	28.9
7838	7.74	196.6	38.00	965.2	1.125**	28.6
8038	7.92	201.2	38.00	965.2	1.125**	28.6
8338	8.25	209.6	38.00	965.2	1.138	28.9
8438	8.36	212.3	38.00	965.2	1.138	28.9
9838	9.70	246.4	38.00	965.2	1.138	28.9

* Elements will fit housings that are not less than 0.010" larger or not greater than 0.040" larger than published diameter
 **1.138" PWT ID available upon request, consult factory



Ordering Information

Each element is identified with a product number and lot number for traceability. **Example Order Configuration: SDA 38 38 - BS 03 - S**

Membrane Type		Nominal Diameter		Length		Feeder Spacer		Control Number Consult a Parker representative for the specific code to match your application	Outer Wrap-Sanitary	
Code	MWCO	Code	Inches	Code	Inches	Code	Size		Code	Description
SBA	5,000	38	3.78	33	33	Diamond		Consult a Parker representative for the specific code to match your application	S	Std. full-fit (4in.)
SDA	10,000	43	4.31	35	35	P	28 mil		SL	Trim-to-fit
		58	5.74	355	35.5	B	31 mil		ST	Reinforced full-fit
		63	6.30	36	36	O	43 mil		QT	Extra reinforced full-fit
		64	6.34	38	38	L	65 mil			
		65	6.38	387	38.75	A	80 mil			
		78	7.74			M	100 mil			
		80	7.92			Parallel				
		83	8.25			Q	46 mil			
		84	8.36			E	65 mil			
		98	9.70			F	80 mil			



⚠ WARNING: This product can expose you to chemicals including N-Methylpyrrolidone, which is known to the State of California to cause birth defects or other reproductive harm, and may expose you to chemicals including DEHP or Titanium Dioxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

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DS_SS_S-Series UF PP 11/11 Rev.6

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