

S-Series Ultrafiltration (UF) Sanitary Spiral Elements

PES membrane with polyester 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.

Membranes Available

Membrane Type	MWCO
SB	5,000
SD	10,000
SF	20,000



Contact Information

Parker-Hannifin Corporation
Bioscience Filtration
2340 Eastman Avenue
Oxnard, California, USA 93030

toll free +1 877 784 2234
phone +1 805 604 3400
fax +1 805 604 3401
bioscience.na@parker.com

www.parker.com/sanitarymembranes



Benefits

- Designed to withstand 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)
- Exclusive blister-resistant technology

Applications

- 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	Polyester
Permeate Tube	Polysulfone

Operating Parameters:

Maximum operating temperature*	145°F (63°C)
Typical inlet pressure**	100-140 psi (7-10 bar)
pH range, continuous	3 - 10
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

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

- * 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	70	6.5	67.3	6.3	53.1	4.9	37.8	3.5	30.7	2.9	25	2.3	51.5	4.8	37.8	3.5	30.7	2.9
38387	71.6	6.7	68.8	6.4	54.3	5.0	38.6	3.6	31.4	2.9	25.6	2.4	53.1	4.9	38.6	3.6	31.4	2.9
4333	81.6	7.6	78.5	7.3	62.8	5.8	44.7	4.2	37.5	3.5	29.6	2.8	60.9	5.7	44.7	4.2	37.5	3.5
4335	92	8.6	83.7	7.8	67	6.2	47.7	4.4	40	3.7	31.6	2.9	67	6.2	47.7	4.4	40	3.7
43355	90.6	8.4	85.3	7.9	68.3	6.3	48.6	4.5	40.7	3.8	32.2	3.0	68.3	6.3	48.6	4.5	40.7	3.8
4336	92	8.6	86.7	8.1	69.3	6.4	49.3	4.6	41.3	3.8	32.7	3.0	69.3	6.4	49.3	4.6	41.3	3.8
4338	95.7	8.9	92	8.6	73.7	6.8	52.4	4.9	43.9	4.1	34.2	3.2	71.5	6.6	52.4	4.9	43.9	4.1
5838	178.8	16.6	171.9	16.0	139.8	13.0	102	9.5	85	7.9	67.5	6.3	135.6	12.6	102	9.5	85	7.9
6338	225.5	21.0	216.8	20.1	176.4	16.4	127.5	11.8	108.4	10.1	87.1	8.1	176.4	16.4	127.5	11.8	108.4	10.1
6438	225.9	21.0	217.2	20.2	177.1	16.5	127.5	11.8	108.4	10.1	87.1	8.1	177.1	16.5	127.5	11.8	108.4	10.1
6538	230.3	21.4	221.4	20.6	179.4	16.7	129.9	12.1	108.6	10.1	87.3	8.1	179.4	16.7	129.9	12.1	108.6	10.1
7838	350.7	32.6	337.2	31.3	277.7	25.8	199.9	18.6	170	15.8	135	12.5	266.7	24.8	199.9	18.6	170	15.8
8038	370.2	34.4	350.6	32.6	288.5	26.8	211.8	19.7	178	16.5	141.3	13.1	279.3	26.0	211.8	19.7	178	16.5
8338	406.8	37.8	392.9	36.5	320.6	29.8	234.7	21.8	199.5	18.5	158.4	14.7	320.6	29.8	234.7	21.8	199.5	18.5
8438	406.8	37.8	392.9	36.5	320.6	29.8	234.7	21.8	199.5	18.5	158.4	14.7	320.6	29.8	234.7	21.8	199.5	18.5
9838	573.5	53.3	543.1	50.5	444.1	41.3	336.5	31.3	283.3	26.3	224.9	20.9	430	40.0	336.5	31.3	283.3	26.3



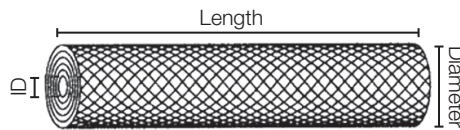
S-Series Ultrafiltration (UF) Sanitary Spiral Elements

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: **SB 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
SB	5,000	38	3.78	33	33	Diamond		S	Full-fit	
SD	10,000	43	4.31	35	35	P	28 mil	SL	Trim-to-fit	
SF	20,000	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.

© 2017 Parker-Hannifin Corporation
Bioscience Filtration
All rights reserved.
Specifications are subject to change without notification.

DS_SS_S-Series UF PE 11/11 Rev. G

Parker Hannifin Corporation
Bioscience Filtration
2340 Eastman Avenue
Oxnard, California, USA 93030
toll free: +1 877 784 2234
phone: +1 805 604 3400
email: bioscience.na@parker.com

www.parker.com/sanitarymembranes
www.parker.com/bioscience

