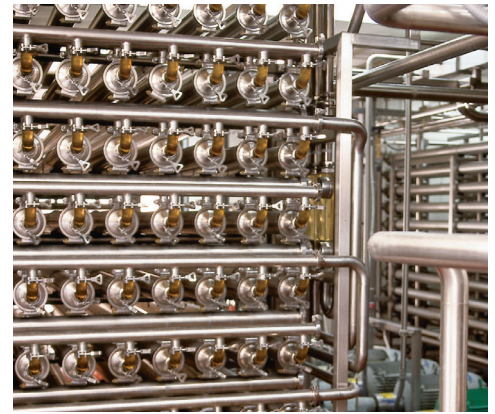


F-Series Ultrafiltration (UF) Sanitary Spiral Elements

PVDF membrane with extended life and superior chemical resistance available from 30,000 to 100,000 MWCO



Designed for extended life in a wide range of food processing and dairy applications, F-Series ultrafiltration sanitary spiral elements provide greater tolerance to oxidizing agents. The Polyvinylidene fluoride (PVDF) membrane provides excellent chemical and temperature resistance under a variety of process conditions.

F-Series membranes offer greater resistance to fouling by color substances.

Membranes Available

Membrane Type	MWCO
FD	30,000
FE	40,000
FF	100,000



Contact Information

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bioscience.na@parker.com

www.parker.com/sanitarymembranes



Benefits

- Increased resistance to oxidizing agents
- 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 & custom diameter configurations for maximum performance and optimal cleaning
- Resistant to natural and artificial dye stuffs in food products

Applications

- Specific whey protein separation
- Corn sweetener clarification
- Protein concentration
- Brine clarification
- Lysine recovery



ENGINEERING YOUR SUCCESS.

F-Series Ultrafiltration (UF) Sanitary Spiral Elements

Materials of Construction:

Membrane	Polyvinylidene fluoride
Backing Material	Polyester
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	3-10
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

* 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	68.5	6.4	63.8	5.9	51.9	4.8	36.6	3.4	30.7	2.9	23.6	2.2	51.9	4.8	36.6	3.4	30.7	2.9
38387	70	6.5	65.2	6.1	53.1	4.9	37.4	3.5	31.4	2.9	24.1	2.2	53.1	4.9	37.4	3.5	31.4	2.9
4333	80.4	7.5	74.9	7.0	61.6	5.7	43.4	4.0	36.3	3.4	27.9	2.6	61.6	5.7	43.4	4.0	36.3	3.4
4335	85.3	7.9	80.2	7.5	65.9	6.1	46.6	4.3	38.8	3.6	29.8	2.8	65.9	6.1	46.6	4.3	38.8	3.6
43355	86.6	8.0	81.4	7.6	66.9	6.2	47.3	4.4	39.4	3.7	30.3	2.8	66.9	6.2	47.3	4.4	39.4	3.7
4336	88	8.2	82.7	7.7	68	6.3	48	4.5	48	4.5	36.9	3.4	68	6.3	48	4.5	48	4.5
4338	93.4	8.7	87.8	8.2	72.3	6.7	51	4.7	51	4.7	39.2	3.6	72.3	6.7	51	4.7	51	4.7
5838	178.8	16.6	168.1	15.6	137.9	12.8	100.1	9.3	85	7.9	65.3	6.1	137.9	12.8	100.1	9.3	85	7.9
6338	221.6	20.6	208.3	19.4	170	15.8	125.4	11.7	106.3	9.9	81.7	7.6	170	15.8	125.4	11.7	106.3	9.9
6438	223.5	20.8	210.1	19.5	172.4	16.0	125.2	11.6	103.9	9.7	79.9	7.4	172.4	16.0	125.2	11.6	103.9	9.7
6538	226.1	21.0	212.5	19.7	174.7	16.2	127.5	11.8	106.3	9.9	81.7	7.6	174.7	16.2	127.5	11.8	106.3	9.9
7838	348.2	32.4	327.3	30.4	269.2	25.0	200.5	18.6	167.2	15.5	128.5	11.9	269.2	25.0	200.5	18.6	167.2	15.5
8038	357.7	33.2	340.5	31.6	279.3	26.0	205.7	19.1	175	16.3	134.5	12.5	279.3	26.0	205.7	19.1	175	16.3
8338	396.9	36.9	377.8	35.1	313.1	29.1	231.4	21.5	196.4	18.3	151	14.0	313.1	29.1	231.4	21.5	196.4	18.3
8438	396.9	36.9	377.8	35.1	313.1	29.1	231.4	21.5	196.4	18.3	151	14.0	313.1	29.1	231.4	21.5	196.4	18.3
9838	555.6	51.6	528.9	49.2	438.2	40.7	318.5	29.6	275.8	25.6	212	19.7	438.2	40.7	318.5	29.6	275.8	25.6



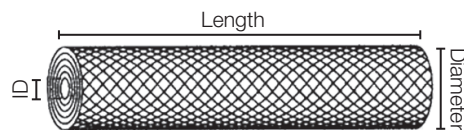
F-Series Ultrafiltration (UF) Sanitary Spiral Elements

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: FD 3838 - BS - S**

Membrane Type		Nominal Diameter		Length		Feeder Spacer		Control Number <small>Consult a Parker representative for the specific code to match your application</small>	Outer Wrap-Sanitary	
Code	MWCO	Code	Inches	Code	Inches	Code	Size		Code	Description
FD	30,000	38	3.78	33	33	Diamond			S	Full-fit
FE	40,000	43	4.31	35	35	P	28 mil		SL	Trim-to-fit
FF	100,000	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.

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DS_SS_F-Series UF PVDF 11/11 Rev. G

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