

# S-Series Ultrafiltration (UF) Process Spiral Elements

PES membrane with polypropylene support for industrial applications

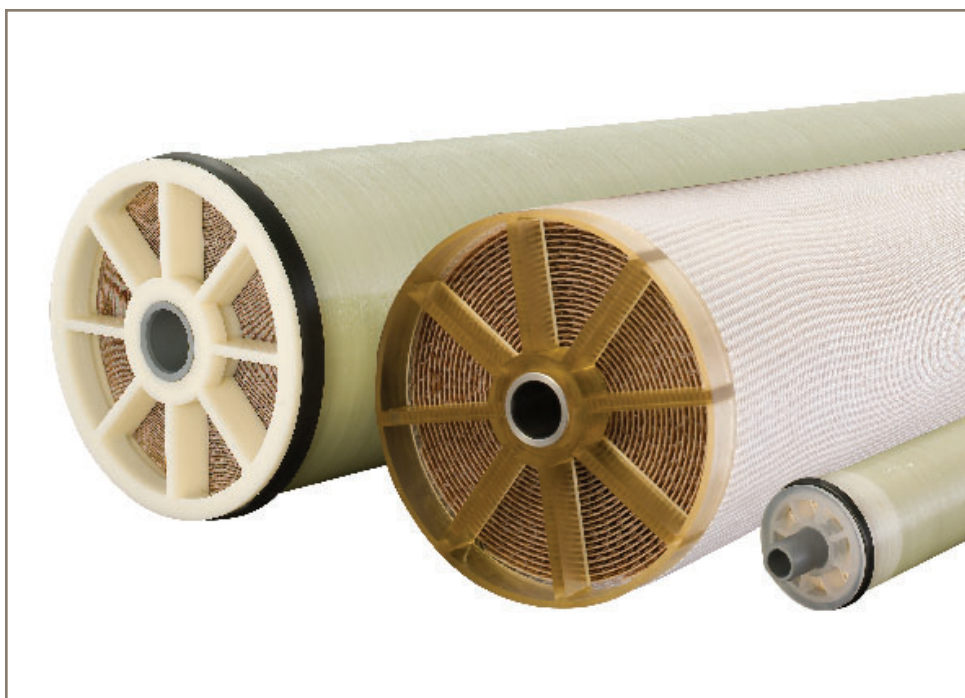


S-Series ultrafiltration process spiral elements are designed for a wide range of industrial fluid applications. The Polyethersulfone (PES) membrane provides excellent chemical and temperature resistance under a variety of process conditions.

The polypropylene supported membrane is ideal for challenging processes 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 FDA/CFR Title 21 standards
- Certified EU1935/2004EC & Plastics Regulation 10/2011
- Available in standard diameter or custom configurations for maximum performance and optimal cleaning
- Parker proprietary Crease Protector Technology (CPT)

## Applications

- **Solvent Resistant**
  - Ethanol Process Streams

ENGINEERING YOUR SUCCESS.

# S-Series Ultrafiltration (UF) Process Spiral Elements

## Materials of Construction:

Membrane	Polyethersulfone
Support 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
- Polysulfone ATD & interconnectors provided

## 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  $\Delta P$  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:

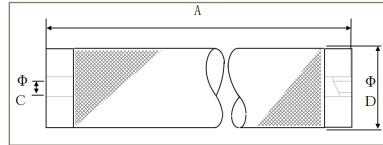
- Elements can be high temperature sanitized, consult a Parker technical representative for details
- Separate specifications are available including UF cleaning guidelines and water quality documents

## Element Dimensions

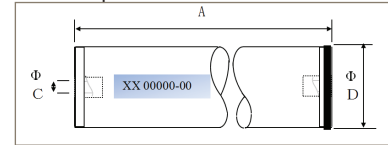
Model	Diameter (D)		Length (A)		Central Tube ID* (C)	
	(in)	(mm)	(in)	(mm)	(in)	(mm)
4040	4.00	101.6	40.00	1016.0	0.625	15.9
8040	7.92	201.2	40.00	1016.0	1.125	28.6

\*Other PWT ID available upon request, consult your Parker representative for details

Netted w/ATD



Hard wrap



## Element Area

		Spacer																		
Model	Diamond										Parallel									
	K	P	B	O	L	A	M	Q	E	F										
	(24 mil) ft <sup>2</sup>	(.6 mm) m <sup>2</sup>	(28 mil) ft <sup>2</sup>	(.7 mm) m <sup>2</sup>	(31 mil) ft <sup>2</sup>	(0.8 mm) m <sup>2</sup>	(43 mil) ft <sup>2</sup>	(1.1 mm) m <sup>2</sup>	(65 mil) ft <sup>2</sup>	(1.7 mm) m <sup>2</sup>	(80 mil) ft <sup>2</sup>	(2.0 mm) m <sup>2</sup>	(100 mil) ft <sup>2</sup>	(2.5 mm) m <sup>2</sup>	(46 mil) ft <sup>2</sup>	(1.2 mm) m <sup>2</sup>	(65 mil) ft <sup>2</sup>	(1.7 mm) m <sup>2</sup>	(80 mil) ft <sup>2</sup>	(2.0 mm) m <sup>2</sup>
4040	75.6	7.0	70.3	6.5	70.3	6.5	54.5	5.1	38.7	3.6	33	3.1	28.2	2.6	54.5	5.1	38.7	3.6	33	3.1
8040	359.4	33.4	333.9	31.0	319.2	29.7	264	24.5	194.4	18.1	165.8	15.4	136.7	12.7	264	24.5	194.4	18.1	165.8	15.4

## Ordering Information

Each element is identified with a product number and lot number for traceability. **Example Order Configuration: SDA 40 40 - BS 03 - S**

□	□	□	-	□	-	□					
<b>Membrane Type</b>		<b>Nominal Diameter</b>		<b>Length</b>		<b>Feeder Spacer</b>		<b>Control Number</b>		<b>Outer Wrap</b>	
<b>Code</b>	<b>MWCO</b>	<b>Code</b>	<b>Inches</b>	<b>Code</b>	<b>Inches</b>	<b>Code</b>	<b>Size</b>	Consult a Parker representative for the specific code to match your application		<b>Code</b>	<b>Description</b>
SBA	5,000	40	4.0	40	40	<b>Diamond</b>				S	Std. full-fit (4in.)
SDA	10,000	80	7.9			K	24 mil			ST	Reinforced full-fit
						P	28 mil			QT	Extra reinforced full-fit
						B	31 mil			H	Hard wrap
						O	43 mil				
						L	65 mil				
						A	80 mil				
						M	100 mil				
						<b>Parallel</b>					
						Q	46 mil				
						E	65 mil				
						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](http://www.P65Warnings.ca.gov).

