

Reverse Osmosis (RO) Process Spiral Elements

Thin-film composite (TFC) membrane with high rejection rates and enhanced durability



Reverse Osmosis (RO) process spiral elements are designed to provide extended life in a wide range of industrial fluid processing. The high-rejection membranes are well-suited for processes requiring dewatering or product concentration.

Membranes Available

Membrane Type	Material
RO2	Thin-film composite
RO3	
ROH	High pressure thin-film composite



Contact Information

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Benefits

- Proprietary thin film composite membrane with high salt rejection and superior performance
- 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 sized configurations for maximum performance and optimal cleaning
- Parker proprietary Crease Protector Technology (CPT)

Applications

- RO permeate polisher
- Evaporator condensate polisher
- Starch recovery
- Juice concentration
- Rinse water recycle
- Dye concentration
- Gelatin concentration
- Blood plasma concentration
- Bio Fuel
- Bio Pharma

ENGINEERING YOUR SUCCESS.

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Materials of Construction

Membrane:	Thin-film composite
Support Material:	Polyester
Permeate tube:	Polysulfone standard

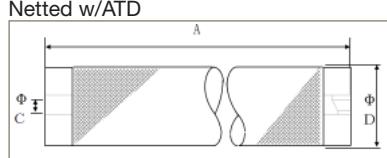
- Special element construction available for high temperature/high pressure/non-standard pH ranges & validation requirements
- Stainless steel & other polymer permeate tube configurations available
- Polysulfone ATD & interconnectors provided

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



Element Area

Model	Spacer											
	Diamond				Parallel							
	K (20 mil) ft ²	P .6 mm ²	B (28 mil) ft ²	O (.7 mm) m ²	L (31 mil) ft ²	A (0.8 mm) m ²	M (1.1 mm) m ²	Q (43 mil) ft ²	E (1.7 mm) m ²	F (65 mil) ft ²	Q (80 mil) ft ²	E (2.0 mm) m ²
4040	91	8.5	84.7	7.9	79	7.3	63	5.9	44.5	4.1	35.9	3.3
8040	423	39.3	393	36.5	374	34.8	304	28.3	215	20.0	184	17.1
											152	14.1
											295	27.4
											215	20.0
											184	17.1

Ordering Information

Each element is identified with a product number and lot number for traceability.

