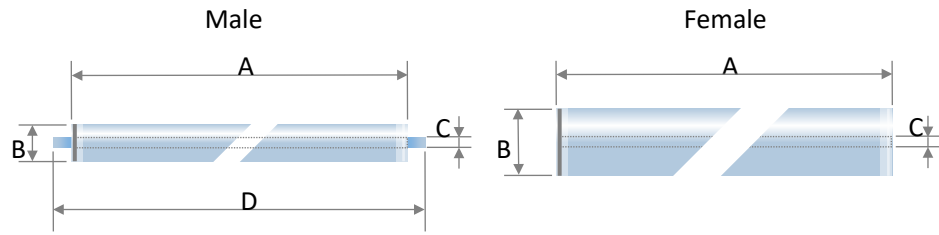


# UNISOL Seawater Reverse Osmosis Elements

## Spiral Wound Element FG SW3013 Series

<b>Description</b>	SW3013 series membrane, with the Thin Film Composite technology, allows elements offer a combination of high rejection and low energy requirements to reduce the total cost of desalination; suitable for medium to high salinity seawater applications		
<b>Specification</b>	Membrane	SW3013	
	Material	Polyamide	
	Permeate Flow <sup>(1) (2)</sup>	FG SW3013 2514J	150 (0.6)
	GPD (m <sup>3</sup> /d)	FG SW3013 2521J	275 (1.1)
		FG SW3013 2540J	560 (2.1)
		FG SW3013 4040J-M	1,600 (6.1)
		FG SW3013 4040J-F	1,600 (6.1)
		FG SW3013 4040M-M	1,600 (6.1)
		FG SW3013 8040M	7,500 (28)
		FG SW3013 8040J	7,500 (28)
	Stabilized Salt Rejection <sup>(1)</sup>	99.8%	
	Minimum Salt Rejection <sup>(1)</sup>	99.6%	
<b>Limits</b>	Max Operating Pressure:	80 bar (1160psi)	
	Max Pressure Drop:	1 bar (14.5 psi) for individual element	
	Max Operating Temperature:	50 °C (122 °F)	
	Cleaning pH Range:	3 – 10	
	Chlorine Concentration	< 0,1 ppm	
<b>Area ft<sup>2</sup> (m<sup>2</sup>)</b>	Model type	Article number	Area
	FG SW3013 2514J	/	6.5 (0.6)
	FG SW3013 2521J	/	12 (1.1)
	FG SW3013 2540J	91112123	28 (2.6)
	FG SW3013 4040J-M	91112344	85 (7.9)
	FG SW3013 4040J-F	91112482	85 (7.9)
	FG SW3013 4040M-M	/	80 (7.5)
	FG SW3013 8040M	/	400 (37)
	FG SW3013 8040J	91112213	400 (37)

**Dimensions**



Size/mm (inch)	A <sup>[1]</sup>	∅B <sup>[2]</sup>	∅C <sup>[3]</sup>	D	Permeate Tube
2514*	295 (11.6)	61 (2.4)	19 (0.748)	356 (14)	Male
2521*	472 (18.6)	61 (2.4)	19 (0.748)	533 (21)	Male
2540*	955 (37.5)	61 (2.4)	19 (0.748)	1016 (40)	Male
4040*-M	963 (37.9)	99.4 (3.9)	19 (0.748)	1016 (40)	Male
4040*-F	1016 (40)	99.4 (3.9)	16 (0.629)	1016 (40)	Female
8040*	1016 (40)	200.5 (7.9)	28.9(1.138)	1016 (40)	Female

<sup>[1]</sup> Tolerance: ±0.5mm.

<sup>[2]</sup> Tolerance: -2/0mm.

<sup>[3]</sup> 2540 tolerance: 0~+0.1 mm. 3838/3840/4338 tolerance: ±0.1mm.  
6338/6438/8038/8040 tolerance: -0.2~0 mm.

<sup>(1)</sup> Test condition: 32000ppm NaCl solution, 800psi (55bar), 77 °F (25 °C), pH 6.5-7.0;

<sup>(2)</sup> .Permeate flow for individual elements may vary ± 20%

<sup>(3)</sup> For the purpose of improvement, specifications may be updated periodically