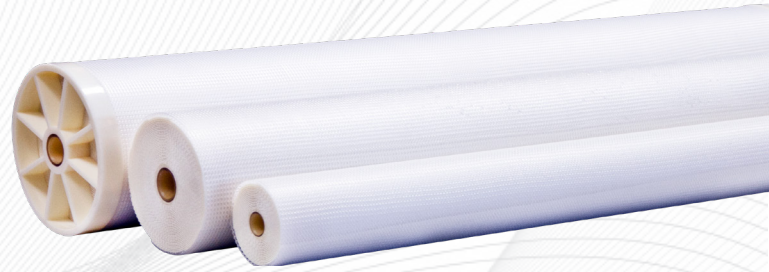


ROX

Sanitary RO Membrane



Model	Polymer	Typical Operating Flux	Average NaCl Rejection ¹
ROX	Proprietary PA TFC	28-33 GFD	99.5%

¹Test Conditions 1,500ppm NaCl Solution at 225PSI (15.5 Bar) operating pressure, 77° F (25° C)

SANITARY ELEMENT OPERATING SPECIFICATIONS

Pressure	PSI	Bar
Max. Operating Pressure if T<95°F (35°C)	600	41.4
Max. Operating Pressure if T>95°F (35°C)	435	30.0
Max. Pressure Drop per Element	13	0.9
Max. Pressure Drop per Housing	60	4.1

Temperature	Fahrenheit	Celsius
Max. Continuous Operation	122°	50°
Max. CIP Temperature	122°	50°

pH Parameters	pH
Operating Parameters	At Max Temp. - 2.0-10.0 At Ambient Temp. - 2.0-10.0
Cleaning Parameters	At Max Temp. - 1.8 - 11.0 At Ambient Temp. - 1.8 - 11.0

Chlorine	Norm. ppm	Max. ppm
Dechlorination recommended	0	< 0.1

NOTE: Trials should be made to determine temperature and viscosity effects. Ribbed spacers are also available for high solids applications.

WATER QUALITY GUIDLEINES FOR CIP

Foulant	Requirement
Iron (Fe)	<0.05ppm
Manganese (Mn)	<0.02ppm
Silicate (SiO ₂)	<5ppm
Aluminum (Al)	<0.05ppm
Hardness	<85ppm as CaCO ₃
Particle Size	<10 micron
Turbidity	<1 NTU

RECOMMENDED ELEMENT CROSS FLOW RATE

Element		Feed Spacer (in mils)				
		24	31	46	65	80
1.8"	m ³ /hr	0.7	0.7	0.7	0.9	0.9
	gpm	3	3	3	4	4
2.5"	m ³ /hr	1.4	1.4	1.6	1.6	1.8
	gpm	6	6	7	7	8
3.8"	m ³ /hr	6	7	8	8	9
	gpm	26	29	33	36	38
8"	m ³ /hr	16	18	21	23	24
	gpm	68	76	89	98	103

The recommended cross flow rate will be subject to differential pressure limitations and specific applications.

RO MEMBRANE AREA (SQ FT)

Element		Feed Spacer (in mils)				
		24	31	46	65	80
1812F		4.7	4	3.0	2.3	1.9
2540F		38	30	22	19	15
2540M		36	28	20	18	14
3838		100	87	68	52	43
3838.75		104	89	69	53	44
8038		450	400	300	240	200
8040		450	400	300	240	200

The quality of water used for flushing and cleaning Synder Filtration membranes is of utmost importance in order to avoid unwanted deposits on the membrane originating from the water does not qualify as "clean water".

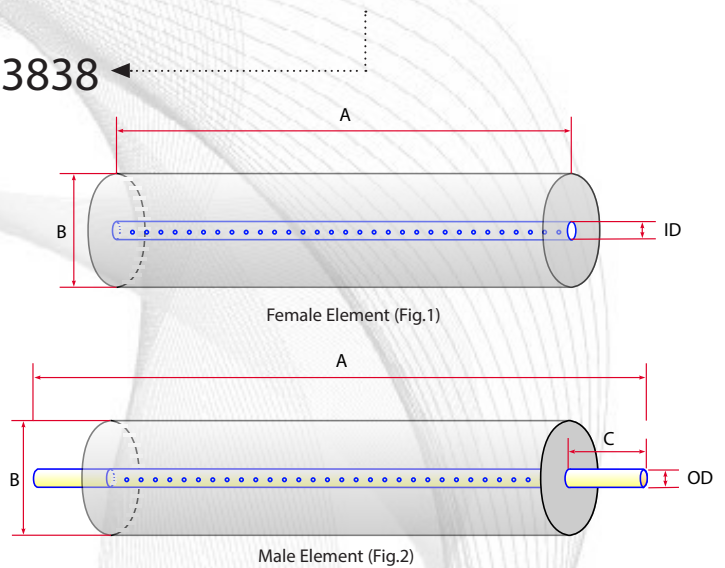
Special attention should be paid to possible foulants such as iron, manganese, and silicates.

Clean water must meet the following specifications at all times

DIMENSIONS & WEIGHT

Element	Model Number	Diameter (B) in (cm)	Length (A) in (cm)	PWT ID/OD in (cm)	Tube Extension (C) in (cm)	Dry Weight lb (kg)
1.8"	1812F	1.8 (4.6)	12 (30.5)	0.625 (1.59)	-	1.0 (0.5)
2.5"	2540F	2.4 (6.1)	40.0 (101.6)	0.625 (1.59)	-	4.0 (1.8)
	2540M	2.4 (6.1)	40.0 (101.6)	-	1 (2.54) (Both Ends)	4.0 (1.8)
3.8"	3838	3.8 (9.65)	38.0 (96.52)	0.831 (2.11)	-	9.0 (4.1)
	3838.75	3.8 (9.65)	38.75 (98.43)	0.831 (2.11)	-	9.0 (4.1)
8"	8038	7.9 (20.06)	38.0 (96.52)	1.125 (2.86)	-	29 (13.2)
	8040	7.9 (20.06)	40.0 (101.6)	1.125 (2.86)	-	29 (13.2)

Membrane Model	
ROX - 2B - 3838	
Spacer Size	Model No.
24 mil Diamond	1
31 mil Diamond	2
46 mil Diamond	3
46 mil Ribbed	3P
65 mil Diamond	4
80 mil Diamond	5
80 mil Ribbed	5P
Outerwrap	
A = Control Bypass with Tail	
B = Control Bypass without Tail	



TECHNICAL NOTES

For element sizes not listed, please call or email Synder Filtration for details. We can design an element to fit your exact needs - just specify the element outer diameter (OD) or vessel/housing inner diameter (ID), element inner diameter (ID), and length. Elements are available with or without a controlled bypass tail. Additional feed spacers are also available.

Trials should be conducted to determine optimal application conditions.

Refer to installation, cleaning, and storage procedures for more details.

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All inquiries will be responded to by a Synder employee personally within 24 hours.