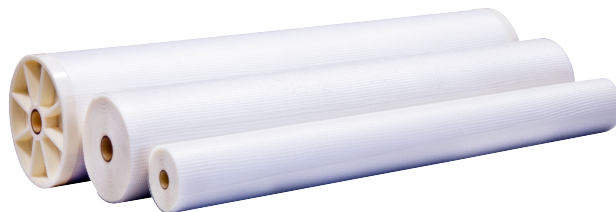


Sanitary Nanofiltration Spiral-Wound Element: **NFG (600-800Da)**

Synder Filtration's Nanofiltration membranes are engineered and designed to provide superior separation performance for various application needs. Known for its stable flux and wide range of rejection to monovalent and divalent ions, Synder's NF membranes have been developed specifically for specialty process applications.



MEMBRANE SPECS

Model	Polymer	Approx. Molecular Weight Cutoff	Typical Operating Flux	Min Lactose Rejection	Min MgSO ₄ Rejection	Average NaCl Rejection
NFG	Proprietary PA TFC	600-800Da	55-60 GFD	60.0%	50.0%	10.0%

COMMON APPLICATIONS

- Demineralization & concentration of lactose
- Desalination of dyes and optical brighteners
- Seawater sulfate removal

RECOMMENDED OPERATING PARAMETERS

Operating Parameters	
Maximum Operating Pressure	600psi (4,137kPa) if T <95°F (35°C) 435psi (3,000kPa) if T >95°F (35°C)
Maximum Temperature	50°C (122°F)
pH Range @ Max Temperature	4-9
pH Range @ Ambient Temperature	4-10

Cleaning Parameters	
Maximum Temperature (Short term <30min)	50°C (122°F)
pH Range @ Max Temperature	3-10
pH Range @ Ambient Temperature	3-10.5

Pressure Drop	PSI
Maximum per Element	15psi (103kPa)
Maximum per Housing	60psi (414kPa)

Chlorine Tolerance	
500ppm hours, dechlorination recommended	

NF SERIES BENEFITS

- Competitive flux as the current industry standard NF membranes
- Excellent MgSO₄ and lactose rejection
- Operate at lower pressures than Reverse Osmosis membranes and still achieve excellent rejection of divalent and multivalent ions
- NF membranes greatly reduce levels of hardness, nitrates, sulfates, tannins, turbidity, color, TDS, and moderate levels of salt from feed water streams

CONTACT US



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sales@synderfiltration.com

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

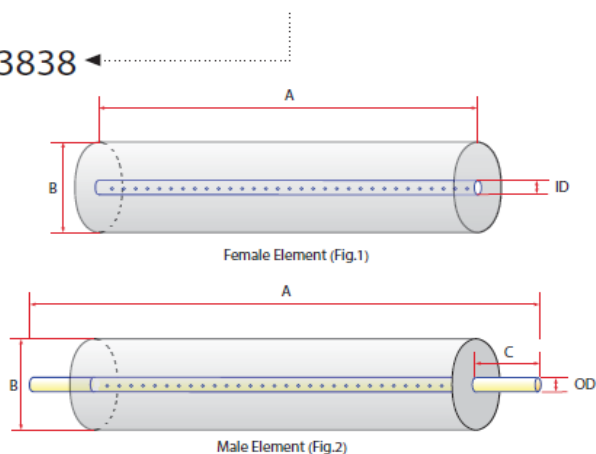


ELEMENT DIMENSIONS & WEIGHT

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)	12.0 (30.5)	0.63 (1.6)	-	1.0 (0.5)
2.5"	2540F	2.4 (6.1)	40.0 (101.6)	0.63 (1.6)	-	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 (9.7)	38.0 (96.5)	0.83 (2.1)	-	9.0 (4.1)
	3838.75	3.8 (9.7)	38.8 (98.4)	0.81 (2.1)	-	9.0 (4.1)
8"	8038	7.9 (20.1)	38.0 (96.5)	1.13 (2.9)	-	29.0 (13.2)
	8040	7.9 (20.1)	40.0 (101.6)	1.13 (2.9)	-	29.0 (13.2)

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

NFX - 2 A - 3838



RECOMMENDED ELEMENT CROSS FLOW RATE

Element		Feed Spacer (in mils)				
		24	31	46	65	80
1.8"	m ³ /hr	0.5	0.5	0.5	0.7	0.7
	gpm	2	2	2	3	3
2.5"	m ³ /hr	1.2	1.2	1.4	1.4	1.6
	gpm	5	5	6	6	7
3.8"	m ³ /hr	6	6.7	7.6	8.3	8.7
	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.

NF MEMBRANE AREA (SQ. FT.)

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 also available with or without a controlled bypass tail. Additional feed spacers are also available.

Trials should be conducted to determine optimal application conditions.