

RO3-3838-N Product Line Sanitary Reverse Osmosis (RO) Element

Physical Dimensions

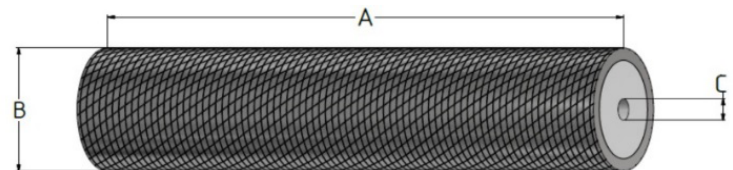
Membrane Element	Membrane Area	Element Length "A"	Element Diameter "B"	Permeate Tube ID "C"
RO3-3838-31N†	73.4ft ² (6.81m ²)	38in (965.2mm)	3.8in (96.52mm)	0.83in (21.08mm)
RO3-3838-46N	58.6ft ² (5.44m ²)	38in (965.2mm)	3.8in (96.52mm)	0.83in (21.08mm)

†(31-80) Feed spacer net thickness (mils)

Operating Parameters[‡]

Feed Spacer Thickness	Max. Element ΔP	Recommended Design Cross Flow
31 Mil	15 psi (1 bar)	25 gpm (5.7 m ³ /h)
46 Mil	15 psi (1 bar)	26.5 gpm (6.0 m ³ /h)

‡Recommended Nominal Values



<0.1 ppm free chlorine in feed stream

RO3 Membrane Information†	
Average NaCl Rejection [*]	99%
Process pH Limitations	3-10
Max. Process Temperature	122°F (50°C)
CIP pH Limitations @122°F (50°C)	2-11
Max. CIP Temperature ^{**}	122°F (50°C)

^{*}NaCl 2,000 mg/l @ 225 psi (15.5 bar)

^{**}Consult factory for detailed cleaning instructions

Complies with 3A Sanitary Standards, FDA (CFR Title 21), EU Commission Directive 2002/72/EC.

High temperature, high pressure and specialty configurations are also available.

Consult Nanostone or visit our website for more information.