

FG-SpiraCore™ N96M Nanofiltration Membrane Element Series

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PCI Membranes® sanitary nanofiltration (NF) membrane elements are used by food and dairy processors for a variety of desalting, purification and other separations. All N96M elements contain an improved Nanofiltration membrane sheet designed to reject organics with a MWCO more than 400 Daltons while passing monovalent salts.



Characteristics

Membrane	N96M
Material	Polypiperazine
Outer wrap	Net wrap

Regulatory Status

Compliant with US FDA CFR Title 21, EC Reg. No. 1935/2004, and EU Reg. No. 10/2011. Halal certificate by the Islamic Food and Nutrition Council of America (IFANCA). Kosher certificate by Committee of Kashrut.

Limits

Max Operating Pressure	55 bar (800psi)
Max Pressure Drop	1 bar (14.5 psi)
Max. Operating Temperature	50 °C (122 °F)
Max. Cleaning Temperature	55 °C (131 °F)
Operating pH range	2 - 10
Cleaning pH Range	1.8 - 11
Free Chlorine Tolerance	Non-detectable

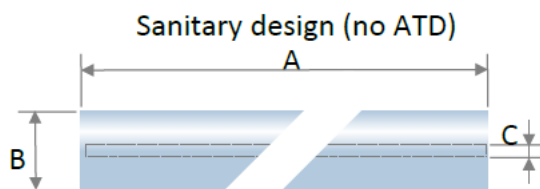
Area ft² (m²)

Spacer	N3838	N8038
31 mil	75 (7.0)	58 (5.4)
46 mil	344 (32)	290 (27)

Notes:

- (1) For the purpose of improvement, specifications may be updated periodically
- (2) Consult PCI Membranes® when intending to operate at elevated pressure, temperature, concentrations.
- (3) D for diamond grid, detailed information can be found in the appendix on the last page.

Updated 28 September 2026



Dimensions

Size	A ^[1] [mm (inch)]	øB ^[2] [mm (inch)]	øC ^[3] [mm (inch)]	D [mm (inch)]
N3838-96M-080-XX ^[4]	965 (38)	96 (3.8)	21.1 (0.831)	/
N8038-96M-080-XX ^[4]	965 (38)	200.5 (7.9)	28.9 (1.138)	/

[1] Tolerance: -2~0mm

[2] Tolerance: -2~0mm

[3] 3838 tolerance: ±0.1 mm, 8038 tolerance: -0.2~0mm

[4] XX: 31 mil or 46 mil

Handling

Water quality for cleaning and diafiltration. Maximum feed turbidity is 1 NTU. Maximum feed SDI is 5.0 (15 minutes test).

Operation. Stated operational conditions are valid and the rules for installation, cleaning, water and preservation have to be adhered. PCI Membranes® approved cleaning detergent, anti-foam, polymers, other chemicals and filter-aids lubricants can be applied only. For further questions, do not hesitate to contact our service engineer.

Lubricants. During installation, use only water or glycerin to lubricate seals. The use of petroleum or vegetable-based oils or solvents may damage the element and void any warranty.

Preservation and Storage. Plan ahead to use new membranes. The element should be stored in a sealed bag, at 4 – 30 °C (39 – 86 °F). Storage solutions should be made with: 1 % w/w sodium metabisulfite.

Chemical Exposure. Residual chlorine concentration during CIP would be <0.1ppm

Cleaning. PCI Membranes® modules may be put into production after having gone through the first cleaning prescribed by PCI Membranes® on product packing notes or given differently by PCI Membranes®.

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