

FG-SpiraCore™ M02U Microfiltration Membrane Element Series

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PCI Membranes® sanitary microfiltration (MF) membrane is made from Polyvinylidene Fluoride (PVDF). It is available in a wide variety of element designs for food, dairy and process separations as well as water purification. The FG-SpiraCore™ M02U Series are designed with temperature operating resistance up to 80°C (176 °F).



Characteristics

Material	Polyvinylidene Fluoride (PVDF)
Pore size	0.2µm
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.

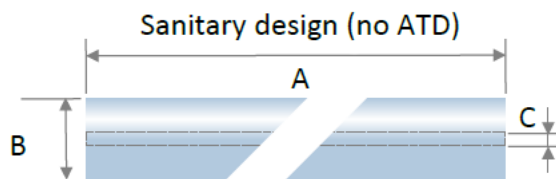
Limits

Max Operating Pressure	6.9 bar (100 psi) at 80°C (176°F)
Max Pressure Drop	1.0 bar (14.5 psi) per element @30°C (86°F)
	0.3 bar (5 psi) per element @70°C (158°F)
Max. Operating Temperature	80 °C (176 °F)
Max. Cleaning Temperature	80 °C (176 °F)

Area ft² (m²)

M3838-02U-010-46-S02	58 (5.4)
M8038-02U-010-46-S02	260 (24.2)

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Dimensions

Size	A ^[1] [mm (inch)]	øB ^[2] [mm (inch)]	øC ^[3] [mm (inch)]	D [mm (inch)]
M3838-02U-010-46-S02	965 (38)	96 (3.8)	21.1 (0.831)	/
M8038-02U-010-46-S02	965 (38)	200.5 (7.9)	28.8 (1.13)	/

[1] Tolerance: -2~0mm

[2] Tolerance: -2~0 mm

[3] 3838 tolerance: ±0.1mm. 8038 tolerance: -2~0mm.

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) For the product name, please refer to the annex in the last page

Handling

Water quality for cleaning and diafiltration. Maximum feed turbidity is 1NTU. Maximum feed SDI is 5.0 (15minutes 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 cleaning cycle (CIP) should be 150 ppm @ pH 10.5 or higher. Chlorine concentration should never exceed 200 ppm.

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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