

FG-SpiraCore™ U005 & U010 Ultrafiltration Membrane Element Series

FG-SpiraCore™ U005 & U010 Series

PCI Membranes® sanitary U005 & U010 are ultrafiltration (UF) membranes that are suited for process separations, particularly applications involving protein concentration to high solids levels. In these applications, a tighter ultrafiltration membrane is often used to maximize product yield. These membranes are available in a wide variety of element designs for food, dairy, and process separations, as well as water purification.



Characteristics

Membrane	Material	MWCO (Da)	Outer wrap
U005	PES	5,000	Net wrap
U010	PES	10,000	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	10 bar (145 psi)
Max Pressure Drop	1.0 bar (14.5 psi) per element
Max. Operating Temperature	55 °C (131 °F)
Max. Cleaning Temperature	50 °C (122 °F)
Operating pH Range	2 - 10
Cleaning pH Range	1.8 - 11

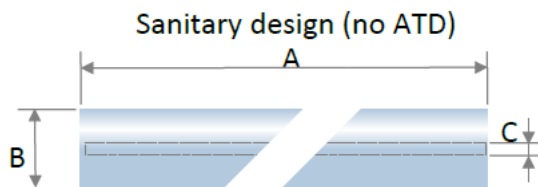
Area ft² (m²)

Spacer	U3838	U6338	U6438	U8038
31 mil	72 (6.7)	226 (21)	226 (21)	370 (34)
46 mil	58 (5.4)	172 (16)	172 (16)	290 (27)
65 mil	45 (4.2)	142 (13.2)	142 (13.2)	225 (20.9)
80 mil	/	119 (11.1)	119 (11.1)	180 (16.7)

Updated 28 September 2026

Notes:

- (1) For the purpose of improvement, specifications may be updated periodically
- (2) Consult PCI Membranes® when intending to operate at elevated pressure, temperature, or concentration.
- (3) For the product name, please refer to the Annex



Dimensions

Size	A ^[1] [mm (inch)]	øB ^[2] [mm (inch)]	øC ^[3] [mm (inch)]	D [mm (inch)]
U3838-XXX-014-XX ^[4]	965 (38)	96 (3.8)	21.1 (0.831)	/
U6338-XXX-014-XX ^[4]	965 (38)	160 (6.3)	28.9 (1.138)	/
U6438-XXX-014-XX ^[4]	965 (38)	162 (6.4)	28.9 (1.138)	/
U8038-XXX-014-XX ^[4]	965 (38)	200.5 (7.9)	28.9 (1.138)	/

[1] Tolerance: -2~0 mm

[2] Tolerance: -2~0 mm

[3] 3838 tolerance: ±0.1mm., 6338/8038 tolerance: -0.2~0mm

[4] XXX: 005 or 010 and XX: 31 mil, 46 mil, 65 mil and 80 mil

Handling

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®.

Updated 28 September 2026