



TRISEP® PS Pharmaceutical MP005 Series

TRISEP® PS sanitary membrane elements for pharmaceutical applications have a long history of outstanding, stable field performance. NADIR® MP005 polyethersulfone (PES) microfiltration membrane with a nominal 0.05 µm pore size offers consistent performance for applications requiring a PES MF membrane. PS elements are available with a number of different feed spacers and in all sizes common in the industry. TRISEP PS elements are built with FDA compliant materials, are compliant with European food regulations (EU 10/2011 and EC 1935/2004), and comply with both USDA and BSETSE standards.

Membrane Characteristics

Membrane	Nominal Pore Size (µm)
NADIR® MP005	0.05

Maximum Operating Pressure.....	10 bar (145 psi)
Maximum Operating Temperature.....	50°C (122°F)
Cleaning pH Range ¹	1.0 – 12.0
Cleaning Chlorine Tolerance	200 ppm for sanitization at pH ≥ 10.5
Maximum Pressure Drop.....	1 bar (15 psi) per element 4 bar (60 psi) per housing

¹ Refer to temperature and pH limits in our *Membrane Cleaning Guides*.

Design Information

MICRODYN-NADIR has the versatility to customize elements to meet customers' specific needs. Please contact MICRODYN-NADIR for information on customized solutions.

Model	Membrane Area m ² (ft ²)	Feed Spacer Thickness (mil) ^a
TRISEP® PS MP005 8438F	21.2 (228)	80

^a All models on this sheet are net wrapped and have diamond shaped feed spacers.

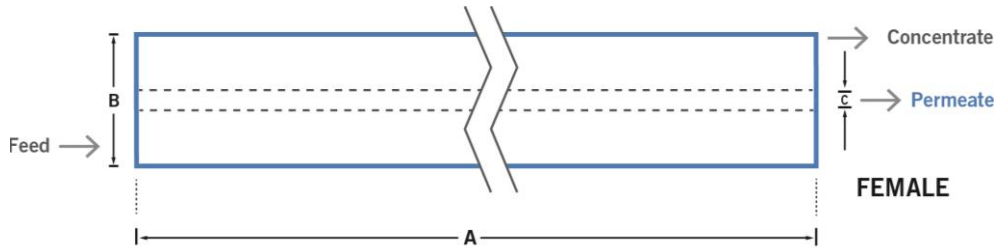


Product Specification (continued)

Physical Dimensions

Model	Element Weight kg (lbs) ^b	Dimensions, mm (inches)			Permeate Tube
		A	B	C ^c	
TRISEP® PS MPO05 8438F	18 (40)	965 (38.0)	212 (8.34)	31.15 (1.226)	Female

^b Shipping weight is dependent on packaging material and quantity shipped.
^c Dimension "C" is the Inner Diameter.



Important Information

- Start-up:** MICRODYN-NADIR recommends flushing elements for 30 minutes at low pressure and discarding permeate during the flush prior to operation. For a more detailed start-up procedure, please see *Element Start-Up Guide – System Start-Up* (TSG-O-005).
- Cleaning:** TRISEP® membrane elements must be cleaned periodically to ensure proper operation and to prevent membrane damage. Please see our *Membrane Cleaning Guides*.
- Storage:** TRISEP membrane elements must be stored appropriately to ensure proper operation and to prevent membrane damage. Please see *Element Storage Guides* (TSG-O-009 & TSG-O-010).

Customizable Specialty Elements

MICRODYN-NADIR offers a full range of membranes and element designs for challenging water and process applications. Technologies include low-fouling RO, submerged UF, continuous high temperature, ultra-high pressure, unique sanitary designs and more. Contact MICRODYN-NADIR to customize a product that satisfies your specific requirements.

Solving Unmet Needs with Customized Products



Headquarters
 MICRODYN-NADIR GmbH
 Building D512
 Kasteler Straße 45
 65203 Wiesbaden
 Germany
 info@microdyn-nadir.de
 www.microdyn-nadir.de

USA Office
 MICRODYN-NADIR US, Inc.
 93 South La Patera Lane
 Goleta, CA 93117
 USA
 info@microdyn-nadir.com
 www.microdyn-nadir.com/en
 www.microdyn-nadir.com/trisep

China Office
 MICRODYN-NADIR (Xiamen) Co. Ltd.
 No. 66 Jinting North Road Xinglin
 Xiamen, China 361022
 infochina@microdyn-nadir.com

Singapore Office
 MICRODYN-NADIR Singapore Pte. Ltd.
 18 Tuas Avenue 8
 Singapore 639233
 info@microdyn-nadir.com