



# TRISEP<sup>®</sup> PS Pharmaceutical MP005 Series

TRISEP<sup>®</sup> PS sanitary membrane elements for pharmaceutical applications have a long history of outstanding, stable field performance. NADIR<sup>®</sup> 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 BSE/TSE standards.

## Membrane Characteristics

| Membrane                 | Nominal Pore Size (µm) |
|--------------------------|------------------------|
| NADIR <sup>®</sup> MP005 | 0.05                   |

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

<sup>1</sup> 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<br>m <sup>2</sup> (ft <sup>2</sup> ) | Feed Spacer<br>Thickness (mil) <sup>a</sup> |
|------------------------------------|--|---|
| TRISEP <sup>®</sup> PS MP005 8438F | 21.2 (228)   | 80  |

<sup>a</sup> All models on this sheet are net wrapped and have diamond shaped feed spacers.

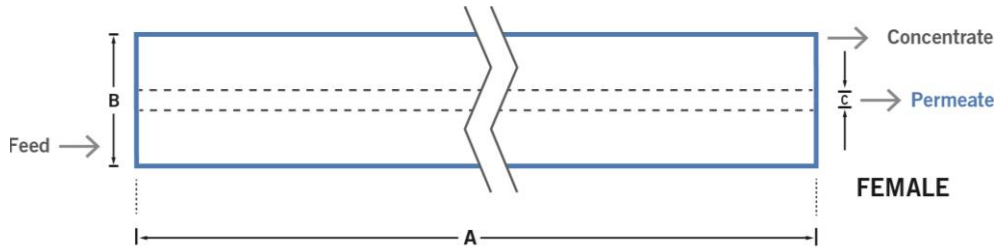


## Product Specification (continued)

### Physical Dimensions

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

<sup>b</sup> Shipping weight is dependent on packaging material and quantity shipped.  
<sup>c</sup> 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



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