

TRISEP® PLT 2540 Elements NP Series



NADIR® NP polyethersulfone (PES) membranes exhibit nanofiltration properties after a high-pressure (40 bar) stabilization, offering unique separation properties for process applications. NP membrane is available in numerous spiral designs that may be customized to meet varied customer requirements.

MEMBRANE CHARACTERISTICS

Membrane	NADIR® NP010	NADIR® NP030
Membrane Type	Polyethersulfone (PES)	Polyethersulfone (PES)
Nominal M.W.C.O. (Da)	1,000 - 1,200	500 - 600

DESIGN INFORMATION

Model	Membrane Area m ² (ft ²)	Feed Spacer Thickness (mil) ^a
TRISEP® PLT 2540-NP010-31	1.9 (20)	31
TRISEP® PLT 2540-NP030-31	1.9 (20)	31

^a All models on this sheet have a fiberglass outer wrap and diamond shaped feed spacers. All models on this sheet includes anti-telescoping devices (ATDs) attached to the ends of the element and one brine seal.

OPERATING PARAMETERS

Maximum Operating Pressure	41 bar (600 psi)
Maximum Operating Temperature	45°C (113°F)
Cleaning pH Range¹	1.0 - 12.0
Cleaning Chlorine Tolerance	200 ppm (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 Membrane Cleaning Guide - Water Application Elements (TSG-C-001).

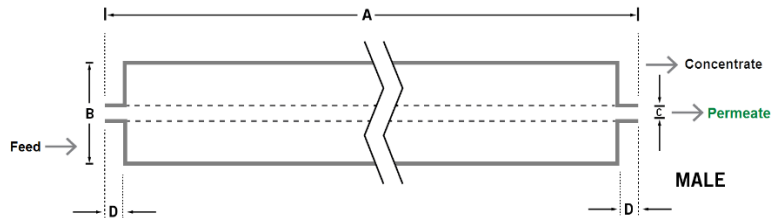
PHYSICAL DIMENSIONS

Model	Element Weight kg (lb) ^b	Dim. A mm (inches)	Dim. B mm (inches)	Dim. C ^c mm (inches)	Permeate Tube ^d
TRISEP® PLT 2540-NP010-31	3 (7)	1,016 (40.0)	64 (2.5)	19.1 (0.75)	Male
TRISEP® PLT 2540-NP030-31	3 (7)	1,016 (40.0)	64 (2.5)	19.1 (0.75)	Male

b Shipping weight is dependent on packaging material and quantity shipped.

c Dimension "C" is the Outer Diameter.

d Male elements have a protruding permeate tube, indicated as "D" in the diagram. Dimension "D" is 25.4 mm (1.0 in).



IMPORTANT INFORMATION

- Start-up:** MANN+HUMMEL Water & Fluid Solutions 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 Membrane Cleaning Guide – Water Application Elements (TSG-C-001).
- 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

MANN+HUMMEL Water & Fluid Solutions 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 us to customize a product that satisfies your specific requirements.

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