

SEPRODYN® SE 090 TP 1M/FF/DIN

Crossflow Microfiltration Modules

SEPRODYN® crossflow microfiltration modules are used to separate suspended solids larger than 1.0 micron. The highly porous polyethylene membrane is backwashable, allowing for stable and efficient filtration with continuously high product flux. The smart construction techniques employed in the module manufacture allow them to be used in applications which require highly stable polymer materials, pH stability (0 to 14), and high resistance against abrasive substances. Feed streams with a high solids content are no problem for SEPRODYN due to the self-supporting and extremely robust tubular membranes with a large inner diameter of 5.5 mm. These tubular membranes are made of ultra-high molecular weight polyethylene, in a process patented by MANN-HUMMEL.

MEMBRANE CHARACTERISTICS

Membrane Material	Polyethylene (PE)
Membrane Tube Inner Diameter	5.5 mm (0.2 inches)
Nominal Pore Size	1.0 µm

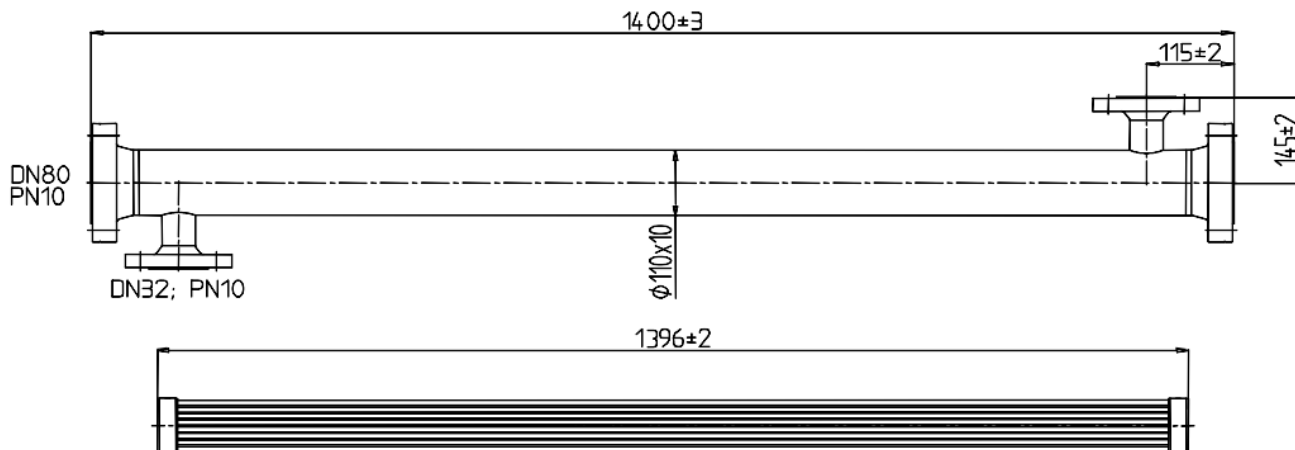
MODULE SPECIFICATIONS

Housing Material	Polypropylene (PP)
Sealing Material	Viton
Number of Tubes	46
Nominal Membrane Area	1.0 m ² (10.8 ft ²)
Free Flow Area	10.7 cm ²

OPERATING PARAMETERS

Temperature Range	5 – 60°C (41 – 140°F)
Maximum TMP - Inside to Outside	3.0 bar (43.5 psi) at 25°C (77°F) 2.0 bar (29.0 psi) at 60 °C (140 °F)
Maximum Backpulse Pressure above Outlet Pressure	2.0 bar (29.0 psi) at 25°C (77°F) 1.5 bar (21.8 psi) at 40°C (104°F)
Feed Flow Rate at Axial Velocity of 1 m/s	3,200 l/h
pH Range	0 – 14
Housing Maximum Pressure	3.0 bar (43.5 psi) at 20°C (68°F)
Housing Maximum Temperature	60 °C (140 °F)

PHYSICAL DIMENSIONS



all dimensions in mm

Length	1,400 ± 3 mm (55.1 ± 0.1 inches)
Diameter	110 mm (4.3 inches)
Connection for Permeate	Backing Flange DN 32, DIN 2501
Connection for Concentrate	Backing Flange DN 80, DIN 2501

IMPORTANT INFORMATION

Storage & Handling: SEPRODYN Tubular Modules must be handled and stored appropriately to ensure proper operation and to prevent membrane damage. Please see SEPRODYN Tubular Modules – User Manual and SEPRODYN Tubular Modules – Handling Instructions.

MANN+HUMMEL Water & Fluid Solutions reserves the right to change specifications without prior notification.

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