

MICRODYN MD 020 FP 2N

Capillary Microfiltration Modules



MICRODYN capillary microfiltration modules are a modern filtration method for the separation of suspended particles or emulsified liquids. The highly porous symmetrical structure of the MICRODYN polypropylene membrane leads to high permeability rates. The MICRODYN membrane is available in 0.1- and 0.2-micron options, with a very narrow pore size distribution to allow for sharp separations.

The MICRODYN membrane is very resistant to abrasion and other mechanical damage due to its homogeneous construction, unlike asymmetrically structured ceramic membranes. The chemical resistance and pH resistance (0 – 14) of the modules is unmatched due to the polypropylene membrane material.

MEMBRANE CHARACTERISTICS

Membrane Polymer	Polypropylene (PP)
Inner Diameter	0.6 mm (0.02 inches)
Nominal Pore Size	0.2 µm

MODULE SPECIFICATIONS

Housing Material	Polypropylene (PP)
Potting Material	Polyurethane (PU)
Number of Capillaries	250
Nominal Membrane Area	0.2 m ² (2.2 ft ²)
Free Flow Area	0.7 cm ² (0.1 in ²)

OPERATING PARAMETERS

Temperature Range	5 – 40 °C (41 – 104 °F)
Maximum TMP inside to outside^a	2.0 bar (29.0 psi)
Maximum TMP inside to outside^b	1.5 bar (21.8 psi)
Maximum Backpulse Pressure above Outlet Pressure^c	1.5 bar (21.8 psi)
Maximum Backpulse Pressure above Outlet Pressure^d	1.0 bar (14.5 psi)
Feed Flow Rate at Axial Velocity of 1 m/s	250 l/h (1.1 GPM)
Housing Maximum Pressure	3.0 bar (43.5 psi)

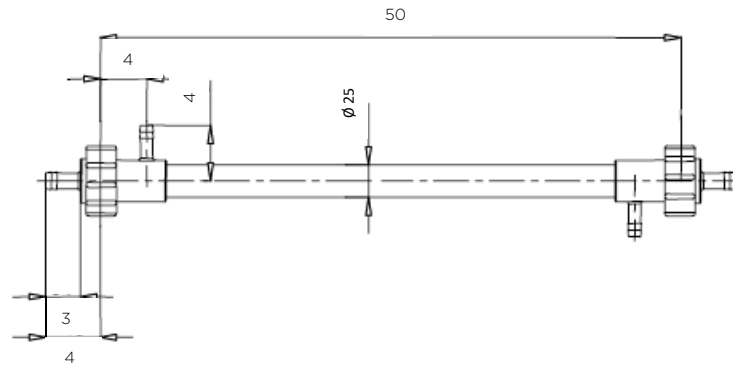
a This value is applicable at 25 °C (77 °F).

b This value is applicable at 40 °C (104 °F).

c This value is applicable at 25 °C (77 °F).

d This value is applicable at 40 °C (104 °F).

DIMENSIONS



all dimensions in mm

Length	500 mm (19.7 in)
Diameter	25 mm (1.0 in)
Connection for Permeate	Hose nozzle $\varnothing$ 10 mm
Connection for Concentrate	Hose nozzle $\varnothing$ 12 mm

IMPORTANT INFORMATION

Storage & Handling:

MICRODYN Capillary Modules must be handled and stored appropriately to ensure proper operation and to prevent membrane damage. Please see MICRODYN MF Modules – Technical Manual and MICRODYN MF Modules – Handling Instructions.

Chemical Cleaning:

To obtain a high filtration capacity on a long-term basis, a chemical cleaning of MICRODYN Capillary Modules is required at times. Please see MICRODYN MF Modules – Chemical Cleaning of MICRODYN Modules and MICRODYN MF Modules – Handling Instructions.

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

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