

NF90 Element

Nanofiltration Elements for Commercial Systems

Key Features

- High flux results in high yields
- Low energy usage reduces power consumption and costs
- Durable with good cleanability for long element life

Key Applications

- Demineralization in small commercial applications

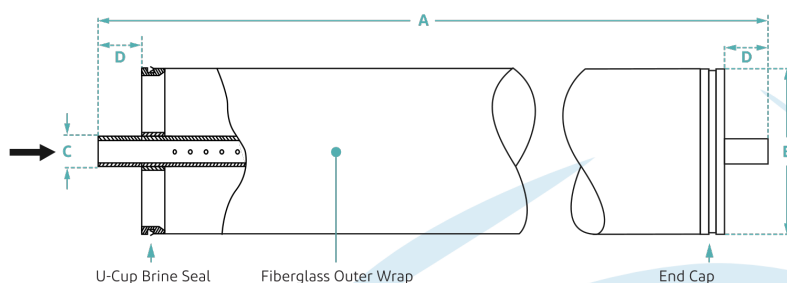


Typical Properties

Product	Part Number	Active Area ft ² (m ²)	Applied Pressure psi (bar)	Permeate Flow Rate gpd (m ³ /d)	Stabilized Salt Rejection (%)
NF90-4040 element	12096025	82 (7.6)	70 (4.8)	2,000 (9.5)	> 98.7

1. Permeate flow and salt rejection based on the following test conditions: 2,000 ppm MgSO₄, 77°F (25°C) and 15% recovery at the pressure specified above.
2. Sales specifications may vary as design revisions take place.

Element Dimensions



Dimensions - inches (mm)	
A	40.0 (1,016)
B	3.9 (99)
C	0.75 (19)
D	1.05 (27)

1 inch = 25.4 mm

coupler part number 89055 is ordered separately for each element. Each coupler includes two 2-210 EPR O-rings (part number 89255).

Suggested Operating Conditions

Membrane Type	Polypiperazine Thin-Film Composite
Maximum Operating Temperature ¹	113°F (45°C)
Maximum Operating Pressure	600 psi (41 bar)
Maximum Pressure Drop	15 psi (1.0 bar)
pH Range	
Continuous Operation ¹	2 – 11
Short-Term Cleaning (30 min.) ²	1 – 13
Maximum Feed Flow ³	16 gpm (3.6 m ³ /h)
Maximum Feed Silt Density Index (SDI)	SDI 5
Free Chlorine Tolerance ⁴	< 0.1 ppm

1. Maximum temperature for continuous operation

Important General Information

- Keep elements moist at all times after initial wetting.
- To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution.
- The customer is fully responsible for the effects of incompatible chemicals and lubricants on elements.
- Avoid static permeate-side backpressure at all times.
- Permeate obtained from the first hour of operation should be discarded.
- The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.

Regulatory Note

This product may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.