

GNM Capsule Filters

Nylon 6,6 Membrane



Applications

- ◆ Process Water
- ◆ DI Water
- ◆ Inks & Dyes
- ◆ Solvents
- ◆ Chemicals

GNM capsules are hydrophilic and manufactured with high quality Nylon 6,6 membrane for critical applications in the processing of a wide range of liquids.

The GNM capsules are designed for general purpose use wherever a cost effective pleated membrane capsule filter is required.

GNM capsule filters are flushed with high purity water to remove manufacturing debris. These cartridge modules are also batch tested for integrity before release.

- High quality, hydrophilic membrane
- Cost effective pleated membrane capsule
- For critical applications in a wide range of liquids

GNM Capsule Filters - Filtration Area

Media	Capsule Length				
	2"	5"	10"	20"	30"
Nylon 6,6 Membrane	1.0 ft ² (930cm ²)	3.0 ft ² (2788cm ²)	7.0 ft ² (6503cm ²)	14.0 ft ² (13006cm ²)	21.0 ft ² (19509cm ²)

Flow Rate / Filtration Area

The following table represents typical water flow at a one psi (69 mbar) pressure differential across a single 2 inch capsule with 1.0 ft² (930 cm²) of media with 1/2" FNPT ports. The test fluid is water at ambient temperature. Higher pressure drops are acceptable, but as flows increase the pressure drop of the housing becomes more apparent.

Pore Size	0.03 μm	0.10 μm	0.22 μm	0.45 μm	0.65 μm	0.8 μm	1.2 μm
GPM	0.09	0.14	0.25	0.43	0.60	0.71	0.79
LPM	0.34	0.53	0.95	1.63	2.27	2.69	2.99

* For approximate flow rates for 5" through 30" capsules, refer to the appropriate cartridge data sheet

Construction Materials

Housing	Polypropylene
Filtration Media	Nylon 6,6 Membrane
Media Support	Polypropylene
End Caps	Polypropylene
Center Core	Polypropylene
Outer Support Cage	Polypropylene
Sealing Method	Thermal Bonding

Maximum Operating Parameters

Liquid Operational Pressure	80 psi (5.5 bar) at 20 °C (68 °F)
Gases Operational Pressure	60 psi (4.1 bar) at 20 °C (68 °F)
Operating Temperature	43 °C (110 °F) at 30 psi (2.1 bar) in water
Forward Differential Pressure	50 psid (3.4 bard) at 20 °C (68 °F)
Reverse Differential Pressure	40 psid (2.7 bard) at 20 °C (68 °F)
Recommended Changeout Pressure	35 psid (2.4 bard)

