NxTM TriMicron Element Series

Description

The filter elements in the TriMicron series have been specially developed for the combined filtration of

- fine solid particle contamination,
- water and
- oil-ageing products from hydraulic and lubrication oils in the bypass flow.

They are a combination of pleated and SpunSpray depth filter elements. The filter layers are produced using melt-blown technology (synthetic fibers).

Features

- Excellent filtration performance ($ß_{5(c)} > 1000$)
- Low initial differential pressure
- High contamination retention capacity
- Fine particle contamination, water and oil aging products removed by depth filter material
- Broad range of fluid compatibility
- Simple element change

Applications

- Offline filtration in lubrication systems (e.g. in wind turbines)
- Offline filtration in hydraulic systems
- Transmission and hydraulic test rigs

Technical Specifications

Model	N1	N3
Contamination Retention Capacity ISOMTD at ΔP = 36.3 psi (2.5 bar)	~ 410 g	~ 2500 g
Water Retention Capacity	~ 680 ml	~ 2.1 l
Beta value $ß_{5(c)}$ @ 29 psi (2 bar)	> 1,000	
Filtration Rating	3 µm	
Differential Pressure at Starting Point	1.45 psid (< 0.1 bar)	
Permitted Fluid Temperature Range	14 to 176 °F (-10 to 80 °C)	
Storage Temperature Range	41 to 104 °F (5 to 40 °C)	

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Model Code

N 1 TM 003 /- N

Nominal Flow Rate
- 1 = Nominal flow rate 0.26 gpm (1 lpm)
- 3 = Nominal flow rate 0.79 gpm (3 lpm)

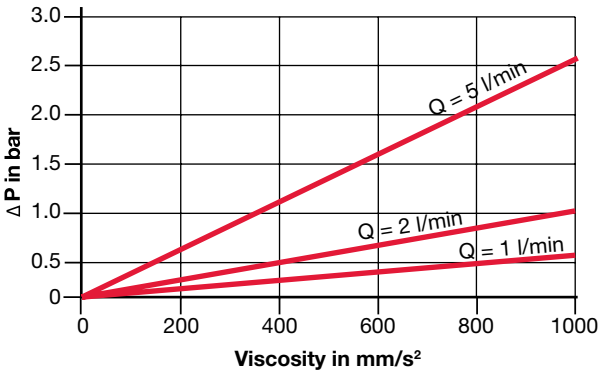
Element Type
- TM = TriMicron

Filtration Rating *(microns)*
- 003 = 3

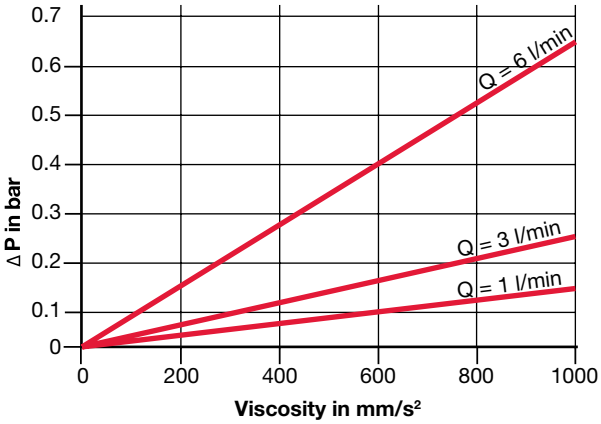
Sealing Material
- N = NBR
- F = FPM

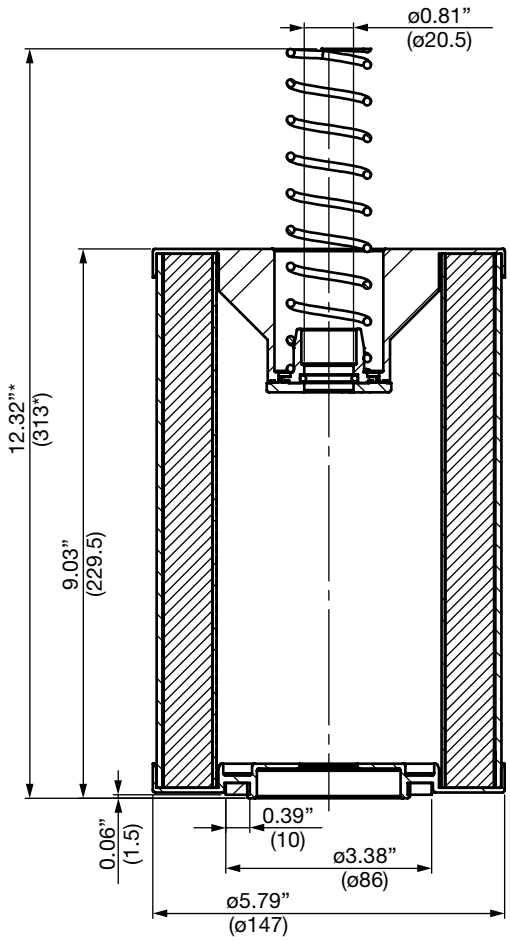
Element Differential Pressure

N1TM

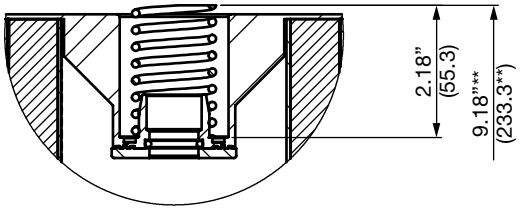


N3TM





* spring unloaded
** spring loaded



Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.