

# MNN series

FILTERING CARTRIDGES  
MELT-BLOWN  
OD 2.5" (63 mm)



## MAIN APPLICATIONS:

- FINE CHEMICAL
- PETROLCHEMICAL
- OIL & GAS
- POWER GENERATION
- PAINT AND RESINS
- GALVANIC
- HYDRAULIC
- STEEL MILL
- GENERAL INDUSTRY

## CHARACTERISTICS:

- Depth filtration
- Graded density filtration matrix
- 100% pure nylon
- Surfactant, binder and adhesive free construction
- High dirt holding capacity
- Non fibre releasing
- Filtration direction from out to in
- Resistant to contaminant unloading even at high Delta-P
- Four end caps configuration available
- Wide range chemical compatibility
- High temperature resistance
- Excellent for solvent filtration
- Filtration rating from 1 to 100  $\mu\text{m}$

**ASCO**  
**FILTRI**  
a **mott** company

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## TECHNICAL DATA

**MAX. WORKING TEMPERATURE**  
95 °C max. continuous  
120 °C for short period

## DIFFERENTIAL PRESSURE

Cartridge replacement:  
2.0 bar @ 25 °C  
Max. allowable:  
5.0 bar @ 50 °C  
1.5 bar @ 90 °C  
(nylon inner core type)

## CONSTRUCTION MATERIAL

**Filter media:**  
- Nylon  
**End caps:**  
- Nylon  
- Polypropylene  
**Gaskets:**  
- Buna-n  
- EPDM  
- Viton  
- Silicone  
- PTFE (only DOE)  
- FEP

## DIMENSIONS

External diameter:  
2.5" (63 mm)  
Internal diameter:  
1.1" (28 mm) - with core  
1.0" (25 mm) - without core  
Length:  
10", 20", 30", 40"

## FILTERING AREA

10": 0.05 m<sup>2</sup>  
20": 0.10 m<sup>2</sup>  
30": 0.15 m<sup>2</sup>  
40": 0.20 m<sup>2</sup>

## Flow-rate / Delta-P - DHC data:

Filtration (µm)	Liquids		Air 0.018 cP	DHC [gr]
	1 cP	10 cP		
1	0.96	0.12	120	40
5	1.20	0.18	180	60
10	1.56	0.22	180	110
25	1.80	0.24	180	125
50	1.92	0.48	180	150
75	2.0	0.60	180	175
100	2.0	0.72	220	200

Liquids flow-rate (m<sup>3</sup>/h) - Air flow-rate (Nm<sup>3</sup>/h @ 7 barg) - Clean Delta-P 0.12 bar.

Flow-rate valid for 10" long cartridges.

For gas different than air: DP = 0.12 x gas viscosity (cP) / 0.018 cP (air).

Flow-rate valid for clean water and air, reduce the flow-rate according to the application.

## Filtration efficiency:

Filtration (µm)	Efficiency		
	90%	99%	99.9%
1	1.0 µm	3.0 µm	5.0 µm
5	5.0 µm	8.0 µm	10 µm
10	10 µm	15 µm	20 µm
25	25 µm	30 µm	40 µm
50	50 µm	60 µm	70 µm
75	75 µm	90 µm	100 µm
100	100 µm	N/A	N/A

Filtration efficiency for liquids defined with Multipass  
ISO 4572 test

## Recommendation:

- Steam sterilization is not recommended
- Use with water at temperatures above 45 °C is not recommended

Contact us for any further information.

We reserve the right to change the data of this specification without notice.

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