



MG series

MELT-BLOWN CARTRIDGES
GAS FILTRATION
OD 4.5"-6" (110-152 mm)

MAIN APPLICATIONS:

- PETROCHEMICAL
- OIL & GAS
- POWER GENERATION
- FINE CHEMICALS
- STEEL MILL
- GENERAL INDUSTRY

CHARACTERISTICS:

- Specifically designed for gas filtration
- Ideal solution for critical application such as:
 - Black Powder removal from pipelines
 - Catalyst or activated carbon fines removal downstream mercury guard bed
 - Molecular sieves fines removal from gas treatment units
- Large diameter to permit high flow-rate
- Low cost disposal of the exhausted elements
- Depth filtration
- 100% pure polypropylene or nylon
- Graded density filtration matrix to maximize the dirt holding capacity even in presence of micronic or sub-micronic particles
- High dirt holding capacity
- Resistant to contaminant unloading even at high Delta-P
- Filtration direction from out to in
- Two size and four filtration rating available
- Wide range chemical compatibility
- Surfactant, binder and adhesive free construction
- Cut end style without gaskets

ASCO FILTRI

a mott company

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TECHNICAL DATA

MAX. WORKING TEMPERATURE

PP 80 °C max.
Nylon 130 °C max.

DIFFERENTIAL PRESSURE

Cartridge replacement:
2.0 bar @ 25 °C

Max. allowable:

PP 3.5 bar @ 40 °C
1.0 bar @ 82 °C
Nylon 4.0 bar @ 32 °C
1.0 bar @ 130 °C

CONSTRUCTION MATERIAL

Filter media:

- MGL, MGF: PP
- MGN: Nylon

DIMENSIONS

MGL-MGN:

OD 152 - ID 114 mm

MGF:

OD 110 - ID 80 mm

Length:

MGL-MGN 20", 40", 60"
MGF 20", 40"

FILTERING AREA

MGL 20": 0.24 m²
MGL-MGN 40": 0.48 m²
MGL-MGN 60": 0.72 m²
MGF 20": 0.17 m²
MGF 40": 0.34 m²

Flow-rate / Delta-P:

Media grade	Air (0.018 cP) - DP 0.06 bar			Air (0.018 cP) - DP 0.1 bar		
	MGL	MGN	MGF	MGL	MGN	MGF
HEF	260	260	180	400	400	280
MEF	360	360	250	650	650	400
SEF	500	500	350	700	700	400
LEF	550	550	380	700	700	400

Air flow-rate (Am³/h) for 40" element.

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

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

Available media grade:

Series	Media grade				Length			Media grade	Filtration rating in gas
	HEF	MEF	NEF	LEF	20"	40"	60"		
MGL	X	X	X	X	X	X	X	HEF	0.3 µm @ 99.999%
MGN	X	X	X	X		X	X	MEF	0.3 µm @ 99.997%
MGF	X	X	X	X	X	X		SEF	0.3 µm @ 99.995%
								LEF	0.3 µm @ 99.90%

Contact us for any further information.

Features:

The MG series cartridges are designed specifically for dry gas filtration or wet gas filtration as pre-filters to protect from early fouling the more expensive cartridges installed in the gas/liquid coalescer filters.

The large diameter design allow to guarantee a very high flow-rate with subsequent filter vessel diameter reduction.

The MG series cartridges are manufactured with the melt-blown technology that provide a controlled and replicable graded density structure to maximize the dirt holding capacity even with very fines particles. In addition, the melt-blown technology provide a very stable fusion of the microfiber in the contact point that can be translated in a very high filtration precision and filtration matrix stability which allow better performance in particle collection and eliminates the risk of particles downloading due to the pressure drop rise during operation.

The cartridges are supported by a reusable and removable perforated core to reduce the environmental impact when cartridge are disposed after use.

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

ASCO Filtri S.p.A.

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