

BMN Nylon mesh filter bags

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Product description

Introduction

BMN nylon monofilament mesh filter bags provide reliable and efficient filtration with a maximum service life for liquid filtration for a wide range of industries, including food manufacturing, industrial and chemical.

The monofilament meshes have a woven structure of single filaments, thermofixed, to give a precise micron rating. And the BMN range feature seams stitched via traditional bag manufacturing methods. Available in industry sizes 1 through to 4 and in Polypropylene and Polyester felts for a wide range of application compatibility.

Sealing

The BMN range of bags is available with molded sealing collars for retrofit into most popular filter bag housings along with traditionally sewn in rings in polypropylene and stainless steel options. Molded rings feature integrated lifting handles enabling ease of use as well as faster bag change and installation and form a 360° hermetic seal, preventing the risk of bypass.

Compatibility

The BMN are constructed from nylon monofilament media, along with polypropylene and stainless steel neck rings, thus assuring a broad chemical compatibility with a large number of solvents, acids and bases. The materials of construction are chosen for their purity, consistent high quality and repeatable performance.

Documentation

BMN filters are designed, developed and manufactured in accordance with a ISO 9001 certified Quality Management System.

All the materials used comply with the European Union Regulation (EC) No. 1935/2004 as well as the Regulation (EU) No. 10/2011. Concerning plastic materials and articles intended to come into contact with foodstuffs. These guidelines for plastics allow the use in food and beverage applications. All materials used meet the requirements of the CFR Title 21.



Key features

- High flow and low pressure drop
- Precise micron rating versus felt bags
- High solid holding capability
- Wide range of application compatibility

Applications

Thanks to its chemical compatibility BMN filter bags are widely used in Food & Beverage, Pharmaceutical, Cosmetics and Chemical Industries.

- Water treatment pre-filtration
- RO membrane protection
- Filtration of pigments, paints and inks



Technical data

Micron ratings (µm)

 $5/25/50/75/100/125/150/300/400/600/800\,\mu m$

Bag size

1/2/3/4

Surface Area

 $S1 - 0.24m^2/S2 - 0.46m^2/S3 - 0.07m^2/S4 - 0.14m^2$

Neck collar/rings

PG to retrofit most housing inc. GAF type PF to retrofit FSI type PR standard PP ring SSR standard stainless steel ring

Dimensions

Diameter Length S1 & S2 – 178mm, S3 & S4 – 101mm S1 – 406mm/S2 – 813mm/S3 – 203mm/ S4 – 355mm

Material of construction

Filter media	Nylon monofilament
PF/PG collar	Polypropylene
PR ring	Polypropylene
SSR ring	304 Stainless steel

Maximum operating temperature 135°C

Maximum recommended flow rate (m³/hr)

S1-20/S2-40/S3-6/S4-12

Protecting process, products and people

Atlas Copco's process filters optimize your productivity while protecting your process, product and consumers. Our portfolio of cartridges and housings covers all your filtration needs. The products are made from proven, high quality materials from reputable suppliers and manufactured in a controlled environment subjected to strict QA/QC procedures.

Regulatory compliance

Indirect food additive

The product complies with food contact regulation 21 CFR §177-182 and (EC) No 1935/2004 and subsequent amendments.

Quality assurance

The filter bags are manufactured in accordance with an ISO 9001 certified Quality Management System.

Filter media Properties

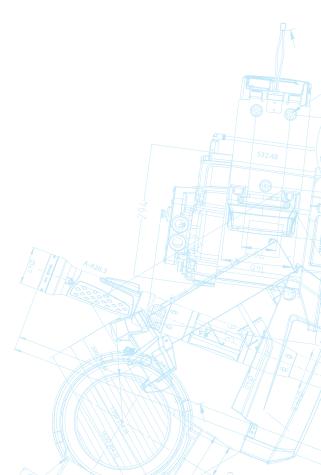
Media	Max. Temp. (°F/°C)	Strong Acid Resistance	Weak Acid Resistance	Strong Alkali Resistance	Weak Alkali Resistance	Solvents
BMN	275-325°F (135-162°C)	Fair	Poor	Excellent	Excellent	Good

Product configuration

Welded

Series	Rating (µm)	Size	Bag Type	Ring	Options
BMN	5	S1	U	PF	F
	25	S2		PG	IP
	50	S3		SSR	
	75	S4			
	100				
	125				
	150				
	300				
	400				
	600				
	800				

Example: BMN 100μm S2 U PG F





Atlas Copco Process Filtration atlascopco.com