

Atlas Copco



**BWF & BSF**  
felt filter bags

# BWF & BSF felt filter bags

## Product description

### Introduction

BWF & BSF felt 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.

All seams are welded on the BWF series to remove the risk of bypass through needle holes caused by the sewing process and the BSF 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 BWF range of fully welded bags uses moulded sealing collars for retrofit into most popular filter bag housings whilst the BSF range uses traditionally sewn in rings in polypropylene and stainless steel options. Moulded rings feature integrated lifting handles enabling ease of use as well as faster bag change and installation.

### Compatibility

The BWF and BSF offers options in both polypropylene and polyester felt media, along with polypropylene and stainless steel neck rings, thus assuring a broad chemical compatibility with a large number of solvents, acids and bases. Both felt materials are manufactured from 100% virgin fibers, chosen for their purity, consistent high quality and repeatable performance.

### Documentation

BWF & BSF 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
- High solid holding capacity
- Silicone free
- Wide range of application compatibility

### Applications

Thanks to its chemical compatibility BWF & BSF 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)

1/5/10/25/50/75/100/200 µm

### Bag size

1/2/3/4

### Surface Area

S1 – 0.24m<sup>2</sup>/S2 – 0.46m<sup>2</sup>/S3 – 0.07m<sup>2</sup>/S4 – 0.14m<sup>2</sup>

### 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 S1 & S2 – 178mm, S3 & S4 – 101mm

Length S1 – 406mm/S2 – 813mm/S3 – 203mm/S4 – 355mm

### Material of construction

Filter media Polypropylene (P)/Polyester (E) needle felt

PF/PG collar Polypropylene

PR ring Polypropylene

SSR ring 304 Stainless steel

### Maximum operating temperature

93°C (polypropylene), 140°C (polyester)

### Maximum recommended flow rate (m<sup>3</sup>/hr)

S1 – 20/S2 – 40/S3 – 6/S4 -12

## 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
P	200-220 °F (93-104 °C)	Excellent	Excellent	Good	Good	Fair
E	275-325 °F (135-162 °C)	Good	Good	Excellent	Excellent	Good

## 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.

# Product configuration

## Welded

Series	Media	Rating (µm)	Length	Bag Type	Ring	Options
BWF	P	1	S1	V	PF	F
	E	5	S2			
		10	S3			
		25	S4			
		50				
		75				
		100				
		200				

Example: BWFP 1µm S2 V PG F

## Sewn

Series	Media	Rating (µm)	Length	Bag Type	Ring	Options
BSF	P	1	S1	U	PR	F
	E	5	S2			
		10	S3			
		25	S4			
		50				
		75				
		100				
		200				

Example: BSFP 1µm S2 U PR F

