

# QUALI-PLEATED-BAG-HE100

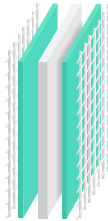
Pleated filter bag



55% Recycled polypropylene

Food-grade polypropylene

Polyester



Filter media material and porosity engraved on flange.

## Product made from recycled materials



SIEBEC  
SUSTAINABLE  
PROGRAM

This product is part of our eco-friendly program (SIEBEC CSR), reflecting our commitment to environmental sustainability.

Incorporating PIR recycled plastic, it helps reduce our carbon footprint by nearly 100 tons per year while supporting a circular economy approach.

Made in France and designed with locally recycled materials.

## Description

QUALI-PLEATED-BAG-HE100 products are high-flow pleated filter elements that fit in place of a filter bag.

The large filter surface area combined with the high porosity media provide the QUALI-PLEATED-BAG-HE100 with minimal pressure drop and excellent retention capabilities.

QUALI-PLEATED-BAG-HE100 is assembled by heat welding to ensure maximum chemical compatibility and avoid the risk of contamination. Pressure and temperature resistance is enhanced by the injection moulded outer cage. Unlike existing technologies, this design gives the pleated filter bag greater rigidity and drastically increases the filtration area compared with conventional filter bags.

Consequently, once the 'QUALI-PLEATED-BAG-HE100' becomes blocked, it can be removed without difficulty.

QUALI-PLEATED-BAG-HE100 incorporates a mesh spacer upstream and downstream of the filter media to ensure the pleats are spaced apart. This design increases filter life and maximises filtration throughput.

## Materials of construction

Code	Material	Max. operating temperature	Application
QTPR	Recycled polypropylene	70°C	Reducing carbon impact
QTP	Food-grade polypropylene	70°C	FDA food application
QTPE	Polyester	110°C	High temperature and solvent

## Range of filter media available

Code	Material	Application
PP	Polypropylene (Single-layer pleat pack)	Standard version with maximum filter surface - FDA-compliant food-grade
PPX	Polypropylene (multi-layer pleat pack)	Thicker configuration for longer service life - FDA-compliant food-grade
PE	Polyester	High temperature and solvent application
GF	Borosilicate micro-fiberglass with polyester support	Enhanced efficiency and retention capacity on colloidal particles - Industrial application
GFF	Borosilicate micro-fiberglass with polypropylene support	Enhanced efficiency and retention capacity on colloidal particles - FDA-compliant food-grade
GFF+	Nanoalumina fibers and micro-fiberglass with polyester support	Increased filtration efficiency with nanoalumina - Food FDA

Consult us for chemical compatibility

## Features & Benefits

- Wide range of porosity from 0.2µm to 100µm, filter materials and media
- 100% welded and reinforced design
- High retention capacity thanks to its design (draining grids, multi-layers, etc.)
- Low pressure losses
- Contains no surfactants, binders, adhesives or silicone
- Compatible with most pocket housings on the market
- Filter media type and porosity engraved on flange for precise identification.

## Standard dimensions

Lip seal outside diameter	180 mm
External diameter external cage	152 mm
Internal diameter	72 mm
Length	Size 10 and 20 pocket equivalent

## Terms of service

Maximum pressure loss	3 bar
Recommended replacement pressure differential	2 bar

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Pleated filter bag



## ORDER REFERENCE

Example :



### A / Materials of construction

Code	Description
QTPR	Recycled polypropylene
QTP	Food-grade polypropylene
QTPE	Polyester

### B / Filter media

Code	Description
PP	Polypropylene (Single-layer pleat pack)
PPX	Polypropylene (multi-layer pleat pack)
PE	Polyester
GF	Borosilicate micro-fiberglass with polyester support
GFF	Borosilicate micro-fiberglass with polypropylene support
GFF+	Nanoalumina fibers and micro-fiberglass with polyester support

### C / Removal ratings

Code	Filtration efficiencies <sup>1</sup>		Materials					
	90%	99,9%	PP	PPX	PE	GF	GFF	GFF+
05	0,2 µm	0,5 µm	•	•				•
1	0,5 µm	1 µm	•	•		•	•	
3	1 µm	3 µm	•	•				
5	3 µm	5 µm	•	•	•			
10	5 µm	10 µm	•	•				
20	10 µm	20 µm	•		•			
35	20 µm	35 µm	•					
50	25 µm	50 µm	•		•			
90	50 µm	90 µm	•					

<sup>1</sup> Filtration efficiencies are determined in a single pass according to the modified NFX45-303 test protocol in the laboratory under high-flow operating conditions.

### D / Sizes

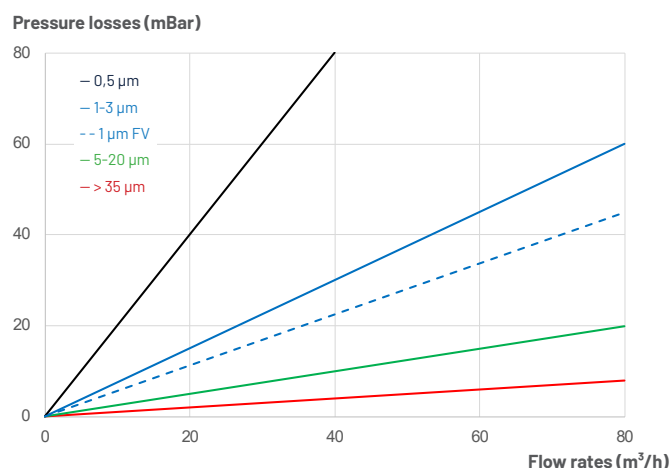
Code	Description
10	Size 10 (290 mm)
20	Size 20 (530 mm)
20+	Size 20+ (700mm)

### E / Seal materials

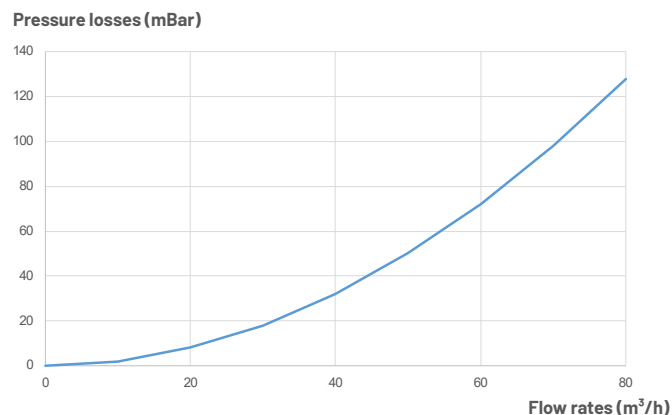
Code	Description
N	NBR
E	EPDM
F	FPM
EA	EPDM FDA

### Typical flow rates :

#### Pressure drops for filtration media only



#### Pressure drops for a size 20 pleated filter bag<sup>2</sup>



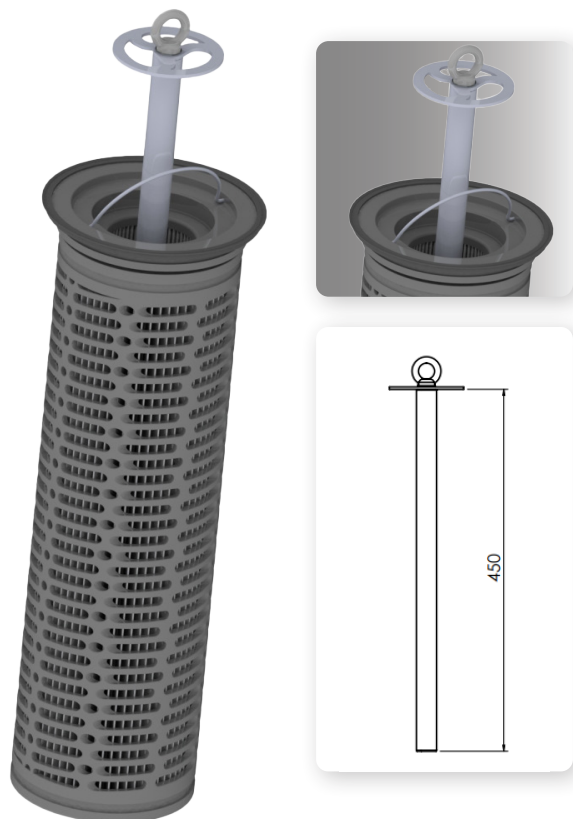
<sup>2</sup> Typical initial pressure drop  $\Delta P$  per 40" element, water at 20°C, viscosity 1cP.

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Pleated filter bag



## MAGNETIC ROD VERSION



### Description

A special version has been designed to integrate a magnetic rod (3800 Gauss or 11000 Gauss).

The magnetic rod helps extend the lifetime of the QUALI-PLEATED-BAG-HE100 thanks to magnetic pre-filtration.

The magnetic holder fits directly into the QUALI-PLEATED-BAG and can be reused each time.

A removable handle is added to the pleated bag to facilitate handling.

### Magnetic rod references

Model	Size	Standard version
3800 Gauss cartridge	T20/T20+/T21	QTP-P-MAG-20
11000 Gauss cartridge	T20/T20+/T21	QTP-P-MAG-HD-20

### ORDER REFERENCE

Order reference for the quali-pleated-bag for insertion of magnetic bars

Add the code HX at the end of the reference.

Example :

QTPR - P - PP - 10 - 20 - 0 - N - HX