

Dust filter cartridge

Pleat distance control

special pleat distance control for polyester and cellulose based filter media

1. Features

Star-pleated Filtration Group dust filter cartridges are used to separate very fine particles from gases. The gas flows inward through the cartridge and is discharged via the open end cap on the top.

Due to the new Filtration Group pleat distance control for polyester and cellulose based filter media, the performance of the Filtration Group polyester cartridges increase up to 44 %, compared with standard polyester cartridges on the market. The improved cleaning effect and the optimized flow conditions are leading the performance to a very high level and to a maximum durability of the filter media of the cartridge.

The cleaning effect is highly improved by the engrained ridges/pleat lock of the filter media. Pleat blocking isn't possible anymore, the air permeability and the air volume flow will be constantly to an extremely high level to get less differential pressure during the process.

Regular, extensive material and performance tests are the key to the consistently high quality of Filtration Group dust cartridges. A team of dedicated engineers in our applications department and modern development laboratories constantly endeavour to mature and perfect our products. Applications tests both on the customer's side and in our own facilities form the backbone of affordable and reliable products.

Characteristics

- Very high retention rate with less differential pressure
- Polyester and cellulose based filter media
- Perfect pleat allocation, due to the pleat distance control with ridges and pleat-lock
- Very high durability
- Very high cleanability
- Maximum useable filter surface
- Very high efficiency
- Very low maintenance necessary
- Worldwide distribution



2. Pleat distance control versions

Standard pleat distance control for polyester based filter media

- Very good and constant pleat allocation by the use of a pleat distance hot melt rope on the backside of the pleats
- Improved cleaning effect of the filter cartridges with less differential pressure and high durability
- Increased stability of the pleats with a pleat depth of 50 mm
- Applicable process for cartridges with a pleat depth of 50 mm and a length up to 1200 mm
- Applicable process for polyester based filter media Ti 08 and Ti 15



Pleat distance control with ridges for polyester based filter media

- Perfect and constant pleat allocation by the use of ridges for polyester based filter media
- Best cleaning effect of the filter cartridges with less differential pressure and very high durability
- Maximum stability of the pleats with a pleat depth of 50 mm
- Applicable process for cartridges with a pleat depth of 50 mm and a length up to 800 mm
- Applicable process for polyester based filter media Ti 08 and Ti 15

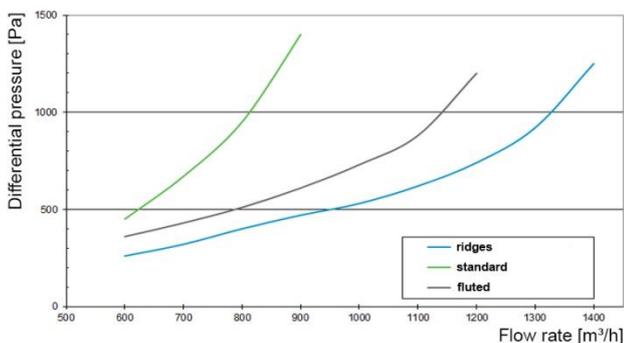


Pleat distance control with Pleat-Lock for cellulose based filter media

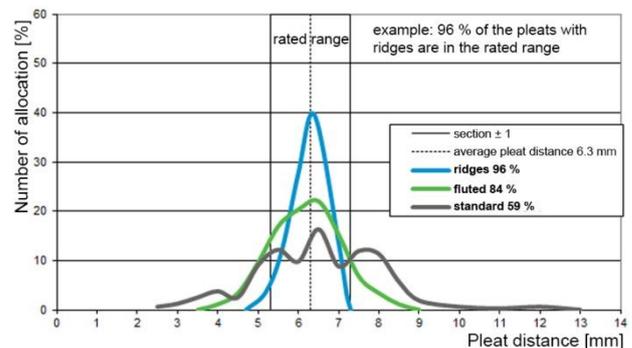
- Perfect and constant pleat allocation by the use of engrained lenses ((Pleat-Lock)) for cellulose based filter media
- Usage of the complete filter surface for cartridges with a pleat depth of 50 mm
- Best cleaning effect of the filter cartridges with less differential pressure and very high durability
- Maximum stability of the pleats with a pleat depth of 50 mm
- Applicable process for cartridges with a pleat depth of 50 mm and a length up to 800 mm
- Applicable process for cellulose based filter media Ti 10 and Ti 85



3. Comparison of performance and pleat allocation



Comparison of differential pressure development on load with fluted filter media, with and without the pleat distance control with the Filtration Group technology of ridges



Comparison of the pleat allocation between the pleat distance controls of fluted filter media and with or without the Filtration Group technology of ridges

4. Design

Please contact us for detailed technical information, any open questions and for general expert advice. Completion of the relevant questionnaire would facilitate in the coordination of all important parameters. Comprehensive documentation on our product range, cleaning units and cartridges can be provided.

Filtration Group GmbH
 Schleifbachweg 45
 D-74613 Öhringen
 Phone +49 7941 6466-0
 Fax +49 7941 6466-429
 industrial.sales@filtrationgroup.com
 industrial.filtrationgroup.com
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