



ViscoFil™

ViscoFil, AKF and KKF systems

Automatic backwash filter for viscous fluids.

The LENZING ViscoFil system has been developed for the separation of soft gel particles out of high viscous fluids.

The unique backwash mechanism enables the usage of depth filter material at lowest backwash quantities and with continuous filtration.

With over 1,000 installations worldwide this system (type AKF/KKF) has reached market leadership in specific processes for decades, e.g. in the viscose fiber industry. Its technology is considered state-of-the-art across the industries.



ViscoFil-KKF-18
For the filtration of big process streams in the wood-based-fiber industry



ViscoFil-5:
For the filtration of smaller process streams at the production of resins, adhesives and other viscous fluids

Advantages

- > Suitable for very high viscous fluids
- > Filter fineness down to 3 µm
- > Filtration of gel particles

Fluids

- > Spinning and casting solutions: viscose, polyacrylics, polyimides, cellulose acetate, spandex, aramid
- > Resins, varnishes, petrochemical products, hot-melt adhesives, gelatin

Proven. Permanent. Performance.

During the filtration the backwash mechanism remains in waiting position [1] (= end position). The filtration works from the inside to the outside.

An automatic backwash is triggered by a preset differential pressure level (or by timer).

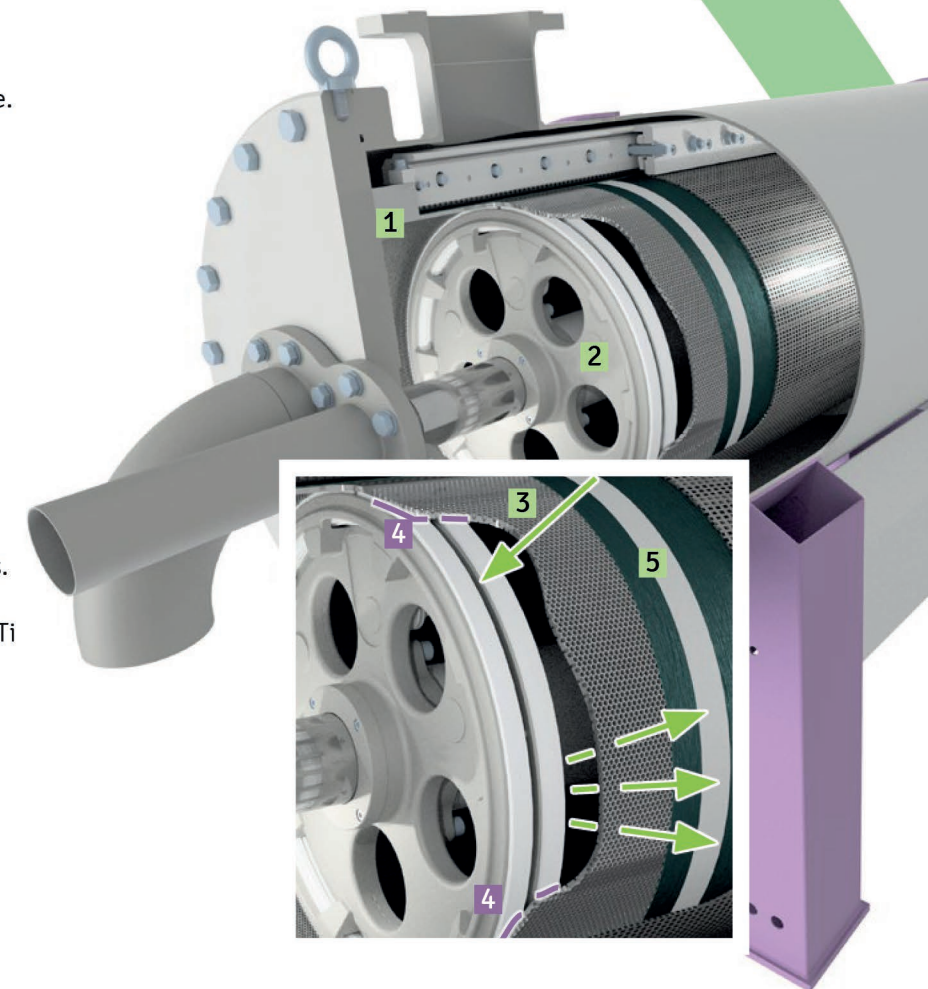
The backwash mechanism [2] moves from one end position to the other.

Thereby, the flow direction is reversed at a very small part of the surface. The very high flow rate aims at an efficient flush [3] of the particles out of the filter material.

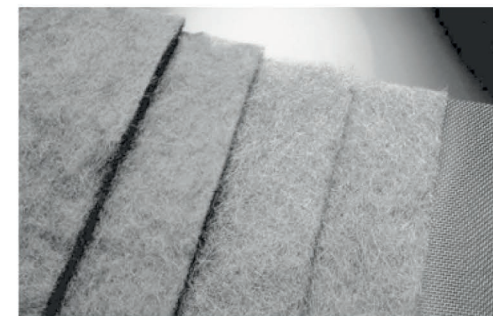
The sealing [4] between the unfiltrate and the filtrate chambers enables lowest reject quantities.

Different materials (e.g. standard steel up to 316Ti stainless steel) are available on request.

Operating temperatures and pressures are adjusted to each individual application.



Filter materials [5]:



Metal fiber fleece for depth filtration (stainless steel 316L)