

Design and Operation

The filter element is the core item of every filter. It essentially consists of a supporting body and a filter media. Various designs provide differing sized filtration surfaces. The required degree of filtration and cleaning can be achieved for every medium with the ideal combination of core components.



Type of element

Candle elements for automatic filters (1)

In a candle element, several filter candles are assembled into a candle holder. This candle element is fitted in the filter housing and remains in the filter chamber during automatic cleaning by backflushing.

Candle elements (2)

This filter element contains several plug-in or screw-in candles, connected in parallel, all with the same dimensions. This results in a large filtration surface within a small filter housing design. These filter elements are characterised by an especially high resistance to differential pressure.

Particle / coalescence element (3)

The high-quality, extremely durable particle and coalescence elements are used for gas filtration and coalescence separation in chemical, petrochemical plants, the offshore sector and power stations.

Filter cartridge (4)

The filter cartridge is a disposable filter element for highest filtration requirements. The perforated plate supporting body guarantees optimum stability and optimum protection for the filter media.

Star-pleated element (5)

The pleated filter media gives the filter element a large filtration surface on a small diameter. This allows long duty intervals and the use of fine filter meshes with low pressure losses.

Multimantle element (6)

The multimantle element consists of several cylindrical filter mantles. These provide a large filtration surface with a small space requirement and allow the use of fine filter meshes.

Ring element (7)

The ring element is constructed similarly to the basket element but it has an additional internal filter cylinder which increases the filtration area by approximately 30%.

Basket element (8)

The basket element is suitable for coarse filtration. The contamination collects in the basket and can be removed easily for cleaning.