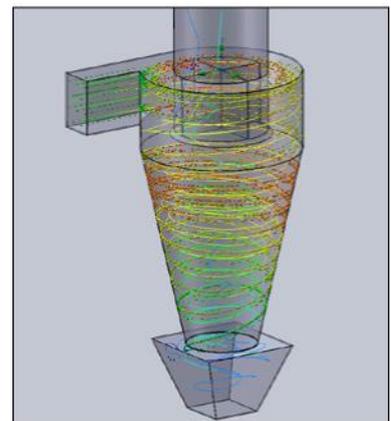




Discharging coarse, fine and combustible particles while protecting the filter media



Particle flow inside a cyclone separator

The appropriate pre-separator for multiple tasks

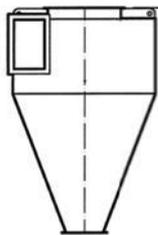
The task

Keller pre-separators are used for discharging coarse, fine and combustible particles, protecting the filter media while minimizing wear and tear. Additionally, they collect a

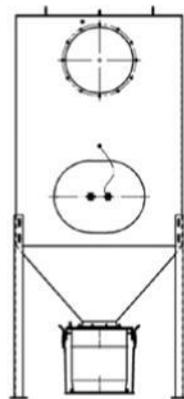
larger dust volume while acting as spark pre-separators to help minimize the risk of fire.

Choice of models

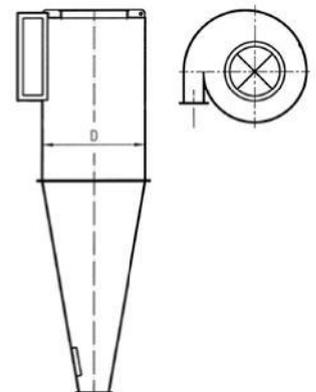
Depending on the required level of pre-separation and the material to be separated, three different types are available



Material pre-separator MVA



Impact separator PA



Cyclone separator AS



Advantages of the material pre-separator: Filter elements are protected, the risk of fire is reduced, compact and low design



Advantages of the impact separator: By discharging highly energized sparks, the risk of fire inside the filter is reduced, and the filter elements are largely protected.



Advantages of the cyclone separator: Protection of the filter elements, high fractional separation efficiency, more suitable for higher air flows up to 125 000 m³/h.

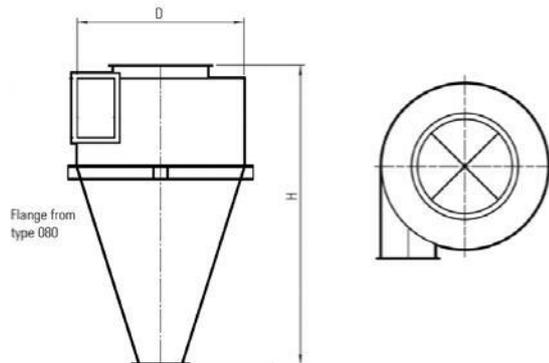
Material pre-separator MVA, MVAS

Design

Material pre-separators MVA are available in different materials and consist of:

- Cylindrical upper section with openings for dirty and clean air
- Funnel-shaped lower section with a spiral deflector

MVAS = reinforced construction



Operation

Mechanical separators operate according to the principle of centrifugal force. Dirty air enters the cylindrical chamber of the spark pre-separator

through an external inlet. The dust particles are propelled against the outer wall and spiraled downward to the funnel-shaped discharge. Clean

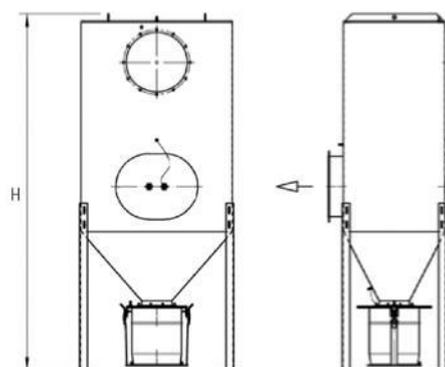
air exits the spark pre-separator through the top.

Impact separator PA

Compact impact separator for discharging e.g., sparks, available in a variety of materials, and for direct attachment to filter systems.

Operation

The dirty air enters the pre-separator at the top and is deflected into the hopper area. If sparks are introduced, the thermal energy of the particles is diminished and large particles are separated. Disposal is in a bucket mounted underneath. The cleaned air is discharged out the rear exhaust.



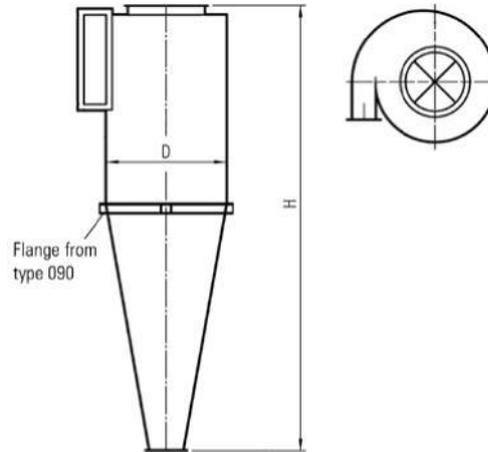
Cyclone separator AS, ASS

Design

High performance cyclone separators are available in different materials and consist of:

- Cylindrical upper section with openings for dirty and clean air
- Conical lower section with discharge outlet

ASS = reinforced version



Operation

Mechanical separators operate according to the principle of centrifugal force. Dirty air enters the cylindrical part of the cyclone through the ad-

joining intake. The dust particles are propelled against the outer wall and spiralled downwards through the funnel-shaped discharge. The cleaned

air exits the cyclone through an upper exhaust air outlet.



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