

Abstract

Filter Candle

The invention relates to a filter candle (10; 50) for gaseous fluids, in particular for hot gas filtration, comprising

- one or more filter elements (12; 52) in the shape of hollow cylinders made of a porous material, wherein the filter elements (12; 52) have substantially identical inner and outer diameters and are disposed coaxially in line with each other;
- a support element (16) comprising a metal tube which is disposed within the one or more filter elements (12; 52), wherein said metal tube (16) has an outer diameter which is smaller than the inner diameter of the filter element(s) (12; 52), and wherein said metal tube (16) has a wall (24) with a plurality of perforations (26); and
- at least two annular sealing disks (34, 36; 54) having an outer diameter equal to or larger than that of the filter element(s) (12; 52) and an inner diameter smaller than that of the filter element(s) (12; 52), wherein first and second terminal sealing disks (34, 36) are disposed at opposite axial end faces of a single filter element (12) or of a plurality of filter elements (52) disposed in line, and wherein optionally further internal sealing disks (54) are disposed between two adjacent filter elements (52) of a plurality of filter elements (52),

wherein the one or more filter elements (12; 52), and optionally the internal sealing disks (54), are compressed between the first and second terminal sealing disks (34, 36).

Figure 1