Product information

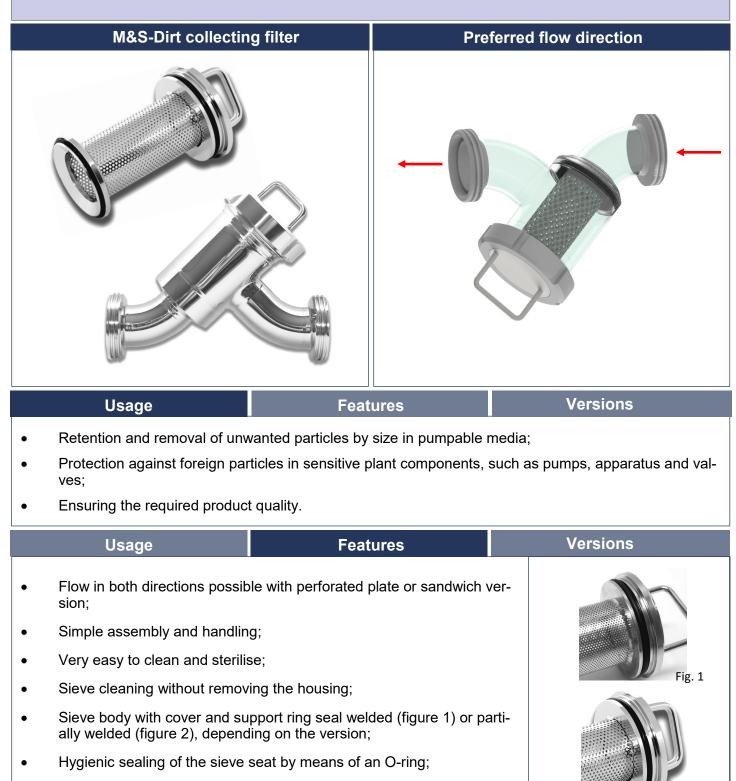


Armaturen GmbH

M&S-Dirt collecting filter general information

M&S dirt collecting filters are used for the filtration of pumpable media in a pipeline. Unwanted particles are filtered out so that downstream components are protected. Basically, they consist of a cylindrical housing with a cylindrical strainer insert made of perforated plate, gauze or slotted tube.

In contrast to the angular filters, dirt collecting filters have a smaller screen body with a lower capacity for dirt collection. These inserts also have a higher pressure loss due to the smaller open area in the screen body. The design of the housing facilitates easy removal and cleaning of the strainer insert without having to dismantle the actual pipeline.



• Stable design of the strainer insert.



Fig. 2

Product information



Armaturen GmbH

M&S-Dirt collecting filter general information

Usage

Features

Versions

- Sizes: DN 25 bis DN 100;
- Permissible operating pressure:
 - * 10 bar;
- Process connections:
 - * Weld ends according to EN10357;
 - Connecting elements from the M&S product range or others according to customer requirements;
- Materials:
 - * Housing: 1.4301/AISI 304, 1.4404/AISI 316L, other stainless steels, titanium or hastelloy
 - * Gaskets (FDA comnpliant): EPDM, FKM, HNBR;
- Strainer insert
 - Welded version (standard);
 - Plugged version with O-ring seal inside the blind cover;
 - Screwed version with round thread screwed into the blind cover.
- Sieve body
 - Perforated plate (round holes 0,5 mm to 10 mm, figure 3);
 - Perforated plate with gauze (45 μm to 1000 μm), internal or external, depending on the flow direction;
 - Sandwich version: combination of perforated plate/gauze/ perforated plate (figure 4);
 - Slotted screen from 10 μm to 5000 μm (figure 5);
 - Flow direction inside to outside (FITO);
 - Flow direction outside to inside (FOTI);

The slotted tube screen consists of a radially arranged wedgeshaped profile wire, which is welded on the inside with support wires.

The filter fineness is determined by the spacing of the profile wire (figure 6).

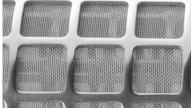
The profile wire is impinged on the head side and the impurities are retained. The wedge-shaped geometry prevents blo-

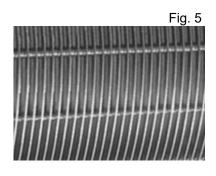
Fig. 6

cking on the opposite side of the wire.

The stable design and the wedge-shaped geometry of the slotted tube screen allows very good backwashability.







Versions with modifications for different requirements available (see further product information sieves: safety, process, handling, hygiene)

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Fig. 3