



Magnetic dirt separators type ADS

The magnetic dirt separator (XF 577600) protects the components in hydraulic systems by ensuring that the fluid is free from impurities, thus maximizing heat transfer efficiency. This compact device integrates three distinct separation methods: collision media for large non-magnetic debris, a central magnet for capturing ferrous material and a 160 µm mesh filter for trapping remaining fine impurities.

The magnetic dirt separator is designed for applications such as heat pumps, where critical components like heat exchangers are sensitive to debris and magnetic impurities. The top cap rotates to control an internal brush that cleans the fine mesh filter by dislodging debris and directing it toward the purge valve. Removing the central magnet facilitates the release of ferrous material.

Brand

Caleffi

Installation

When mounting the dirt separator, pay attention to the flow direction indicated by the arrow on the T piece. For optimum protection, the dirt separator should be installed as close as possible to the source or heat pump on the return line.

The complete installation and commissioning instructions can be found in the manual under "Downloads".

Specifications

- Connection: G 1" (ISO 228-1) F
- Maximum operating pressure: 3 bar
- Liquid temperature range: 0-90°C
- Mesh filter size Ø: 0,16 mm
- Material: technopolymere
- Adjustable for horizontal and vertical pipes

Configuration

