



ACME
FLUID SYSTEMS



AN ISO 9001:2008

Scrapper Mechanism Self Cleaning Filter System

Keeping up with new technology and innovation, Acme Fluid Systems has developed the Scrapper Mechanism Self-Cleaning Filter

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Your Advantage***

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Scrapper Mechanism Self Cleaning Filter System

The Scrapper mechanism self-cleaning filter is constructed of filter housing, wedge wire filter elements, scrapper system, PLC control system, Automatic drain valve, Differential Pressure Transmitters and Geared motor. In the process of filtration, the Dirty liquid enters through the inlet connection of the filter housing, and flows inside-out of the wedge wire element of desired Micron. During Filtration the Impurities are trapped on the surface of the filter element and the clear filtrate exits from the outlet connection. The PLC Control System Constantly Monitors the Differential pressure across the Inlet and outlet by means of Pressure Transmitters. Once the Differential pressure reaches the pre set Limit the Self-cleaning cycle is initiated. The geared motor drives the scrapper, which leads to the Cleaning of the suspended impurities from the surface of the element. During the cleaning cycle the flow of filtered liquid is not interrupted. The foreign particles are collected at the bottom of the filter, which is connected to an automatic drain valve. During cleaning cycle the drain valve opens up and impurities are drained out. The drain valve can also be timer based depending on the customer requirements. This low maintenance Filtration System is used for filtration with Online cleaning of Filter elements, without any Exposure to operators.

There are many advantages to our Self cleaning Systems.

- Online cleaning means uninterrupted flow
- Reduces process/system downtime
- Reduces operator exposure
- Reduces maintenance cost
- Reduces filter element disposal and replacement cost
- Increases productivity

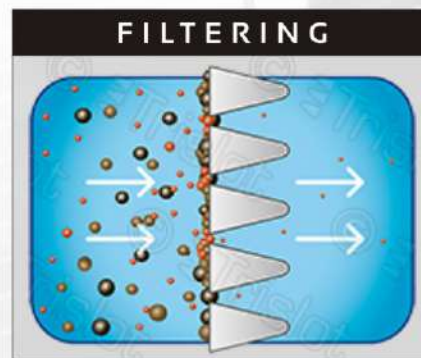
Industries served include :

- Automotive • Steel • Petroleum • Chemical
- Pharmaceutical • Electronics • Nuclear Power
- Superfund Sites • Groundwater & Soil Remediation
- Commercial Laundries • Entertainment
- Food • Mining • Detergents • Paper

Applications include :

- Cooling Towers • Coolants • Membrane Protection
- Sulfuric and other Acids • Harvesting Steroids
- Oil Reclamation • Potable & DI Water • Bottling Plants
- Food Processing • Recycling • Decorative Ponds

Wedge Wire Elements



Wedge wire is a welded steel structure, mainly used for filtration, separation and retention media. It consists of surface profiles, usually V-shaped, that are resistance welded onto support profiles. The distance between the surface profiles is controlled very accurately, as it forms the slot through which the filtrate flows. In case of V-shaped surface profiles conical slots are created (as shown on figure).



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