



Disc Type Self Cleaning Filter\*  
Designer-Manufacturer-Exporter-Supplier



\* Patent Pending



### Disc Type Self Cleaning Filter

Disc Type Self Cleaning Filter is used for highly viscous material filtration like Grease, Lube Oil, Edible Oil, Toothpaste & many more. Here, we don't required any backwashing media to clean the Filter Element. It is working under principle of differential pressure parameters for uninterrupted filtration requirement.

## Construction

Disc type self-cleaning filter is constructed of filter housings, filter elements, and drain valve. It also has a pneumatic cylinder and timer-based drain valve. Filter housings can be offered in various materials of construction such as various grades of stainless steel, carbon steel and alloy metal. Filter elements can be offered with wedge wire, sintered multi-layer wire mesh, plain wire mesh and sintered metal powder configuration. They are selected based on the requirement of filtration quality.

For 100 microns and more, normally it is recommended to use wedge wire element. From 2 microns to 100 microns, it is advisable to use sintered multi-layer wire mesh and plain wire mesh, depending upon the application requirement.

Customers can use pneumatically or electrically operated butterfly valve or ball valve as per their process requirement. This valves can be easily configured with control panel. Control panels can be offered with FLP (flame proof) and non-FLP, depending upon the process requirement.

## Operation

A spring-loaded cleaning disc moves up and down inside the filter screen and removes collected contaminants. Contaminated fluid flows from top to bottom, and from inside of the screen to outside. The contaminants that are collected on the screen are easily removed and evacuated to the collection chamber. On the down stroke, any remaining contaminants are driven downwards to the collection chamber while on the upstroke, the cleaning disc removes contaminants from the screen surface.

## Features & Benefits

- No replacement costs for filter screen and no disposal expenses.
- PTFE/Polypropylene Disc comfortable with most of fluids.
- Reduces the risk of operators in contact with the dangerous material.
- Reduces the labor demands and no more filter screen changeouts.
- Increases profitability, improves overall system efficiency, and reduces downtime.
- Longer life, higher accuracy, higher erosion resistance.
- Space-saving design, small and compact footprint.
- Collection and removal of contaminant from fluid being filtered, without any interruption in the operation.
- Automatic operation.

## Technical Specification

### Flow Rate

Capacity: Up to 2000 m<sup>3</sup>/hr & more

### Material of Construction

- SS 316L, SS 316, SS 304, Super Duplex, Duplex Stainless steel 220, CARBON STEEL (ALL GRADE), MILD STEEL, ALLOY METALS,

### Gasket / O Ring Material

- Neoprene, Nitrile, Silicone, Viton, Buna N, EPDM, PTFE, Spiral Wound, CAF

### End Connections Available

- NPT / BSP Threaded
- Flanged Table E / Table F
- ANSIB 16.5 Flanged
- DIN Standard
- Tri Clover Adaptors
- SMS / Dairy End Connection

## Applications

- Paint & Inks
- Surface water removal
- Solvents
- Boiler backwater
- Chemicals
- Domestic water supply
- Reverse osmosis [Pre Filtration]
- Glycol
- softening
- Toothpaste
- Landscape water
- Adhesive
- Green spray
- Lubricants
- Agriculture irrigation
- Cooling water
- Ion exchange
- Reclaimed water
- Oil field
- Ground water water



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## Filter Concept Pvt. Ltd.

(An ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 Certified Company)

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