



Auto Backflush Self Cleaning Filter*
Designer-Manufacturer-Exporter-Supplier



* Patent Pending



Auto Backflush Self Cleaning Filter

Auto backflush self cleaning Filter is unique & revolutionary product in field of filtration. It offers easy filtration , high throughput, low pressure drop & automated controlled operation with choice of customization, it eliminate manual exposure & consumable cost for media replacement. In case of water treatment business it is complete replacement of sand filter of multi grade Filter.

Construction

Auto Backflush Self cleaning filter is constructed of filter housing, filter element, back flushing valve, differential pressure gauge, differential pressure switch, Dust Extraction assembly, Geared motor with Sensor and Control Panel. Filter housing can be offered in various material of construction such as various grades of stainless steel, carbon steel and alloy metal. Filter element can be offered in wedge wire, multi layered wiremesh, and plain wiremesh configuration, depending upon process requirement. These filters can offer filtration level starting from 1 micron to 2000 micron. They are designed to deliver flow rate up to 2000 m³/hr or even more.

*Accessories Shown on Image are optional & not covered as standard scope of supply

Filter element cleaning mechanism constructed of dust extraction assembly, which rotates inside the surface of filter element & moves upward- downward to ensure proper cleaning of filter element throughout the area. Dust extraction assembly is constructed of precisely designed nozzles at pre-defined distance from filter element surface. Such nozzles are equally placed perpendicular with center pipe, which rotates with the help of geared motor at defined speed. Dust extraction assembly is also connected with back flush valve that has finally open end to the atmosphere.

Filtration

Auto self cleaning filters are designed for flow direction from inside to outside. Contaminated fluid enters into filter housing through inlet connection. It passes throughout the inner surface of filter element, where suspended particles of defined micron rating retained inside & clear filtered material comes out from filter housing through outlet connection. Suspended particles retained inside filter element create a layer of debris, resulting increase in differential pressure.

Backwashing Or Cleaning

Once differential pressure reaches to its pre set level, control panel send signal to back flushing valve to open. With pressure difference within filter element & atmospheric pressure outside, it creates high suction inside the filter element. Due to this suction pressure, debris/cake deposited on element surface is pulled out through nozzles & finally discharge from filter housing through flushing line. With high velocity of water within nozzle create a jet pressure to remove sticky cake deposition even with small opening. This entire process of back flushing completed within 30 – 60 seconds depends upon size of filter element & nature of fluid to be handle

Features & Benefits

- Simple operation of filtration
- Easy process of Backwash / Back flush
- Less wastage of water for cleaning
- No consumable cost
- Minimum manual intervention
- Uninterrupted through out all time, even during back flushing
- Can handle high suspended load

Technical Specification

Flow Rate

Capacity: Up to 2000 m3 /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
- ANSI B 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
- Automobile
- Desalination
- Landscape water
- Adhesive
- Green spray
- Lubricants
- Agriculture irrigation
- Cooling water
- Ion exchange
- Reclaimed water
- Oil field
- Ground water water



Designed By: e-brandstudio.com

Filter Concept Pvt. Ltd.

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

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