Integrity Engineering

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Cartridge Filter System

Designer-Manufacturer-Exporter-Supplier





Cartridge filter system offers wide range of flow capacities & contaminant holding capacities. Cartridge filter housing diameters can accommodate around 1 to 500 Nos. of cartridges. Cartridge filters are normally used as polishing filter in almost all process industries. Cartridge filter is constructed of filter housing, filter cartridges, tube sheet, positive sealing arrangement for cartridge depending upon type of cartridge & choice of end connections. Positive sealing arrangement for cartridge filter assures no particle migration or fiber migration, even after high differential pressures.

Operation

Contaminated fluid enters the housing and is distributed evenly around the filter cartridges. Filtration takes place from outside to inside. Solids are collected on the outside of filter cartridges & clear filtrate is collected at outlet.

Features & Benefits

- Low pressure drop
- High dirt holding capacity
- · Zero hold up design available on demand
- Permanently piped housing are opened without special tools and without disturbing the piping
- · Easyto clean in case of cleanable filter
- h-lineinlet and outlet high flow rates
- · Positive sealing arrangement to avoid bypassing
- Suitable for double open end (DOE), Code 7 (226 0-Ring) & 222 0-Ring type filter cartridge
- Accommodates 10", 20", 30", 40", SCR& 60" long filter cartridges.
- End connections oH 4" to 24" pipe
- V posts or th readed center posts
- · Quick opening tri clovers design available on demand
- · Easyto operate & low maintenance
- Flowrateupto 2000 m3/hr & more
- · Customized design available
- · Housings are permanently piped
- All housings madefrom SS3 16 LSS3 16 &SS 304 are mirror polished & electro polished to resist adhesion of dirt and scale
- Carbon steel housings are sand blasted, epoxy coated & finally painted with two coats of synthetic enamel
- ASME code stamp & PED certified filters are available
- High temperature & high pressure designs are available

Special Options

- · Sanitary fittings and construction
- · High pressure rating
- Housings made of alloy steel
- · Steamjackets, Insulation
- · Special outlet locations
- Optional cartridge sealing methods for 226, NPT, etc.

Technical Specifications

Sizes (Cartridge Filter Housings Suitable For)

- $\bullet\,1\,$ No. To $\,500\,\text{Nos.}$ Of Cartridges in Single Housing
- 2", 2.5", 4 • 6" & 8° Diameter of Cartridge
- 10", 20", 30", 40", 50"& 60" Length of cartridge

Flow Rate

•Capacity: Upto 2000 m3/hr & more

Material of Construction

- •SS 316L | SS 316 | SS 304 | CARBON STEEL (ALL GRADE) | MILDSTEEL | ALLOYMETALS
- •Super Duplex, Duplex stainless steel 2205
- POLYPROPYLENE LEAD LIN NG on any metal
- RUBBER LIN NG on any metal
- TEFLON LIN NG on any metal
- TEFLON coating on any metal
- · Glass Flake Coating

Cartridge Filter Housing Suitable for Filter Cartridges of

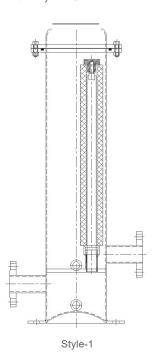
- Double Open End (DOE) Type
- •Code 7 (226 0 Ring) Design
- •Code 3 (222 0 Ring) Design
- NPTThreaded Connection Type

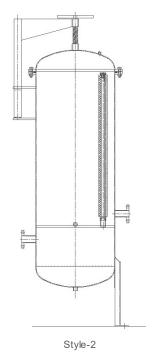
Gasket/0 Ring Material

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

End Connections Available

- NPT/BSPThreaded
- Flanged Table E / Table F
- · ANSB16.5 Flanged
- D N Standard
- Tri Clover Adaptors
- · SMS/DairyEndConnection





Applications

- Pharmaceuticals
- Petroleum Derivatives
- WaterTreatment
- · Food & Beverages
- Bore Well water
- Dairy

- Coolants
- Paints & Inks
- · Processing Chemicals
- Dyes
- RO Pre filtration
- · & Many More