

# 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
- Easy to clean in case of cleanable filter
- h-line inlet 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 of 4" to 24" pipe
- V posts or threaded center posts
- Quick opening tri clovers design available on demand
- Easy to operate & low maintenance
- Flow rate up to 2000 m<sup>3</sup>/hr & more
- Customized design available
- Housings are permanently piped
- All housings made from SS316 L, SS316 & 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
- Steam jackets, Insulation
- Special outlet locations
- Optional cartridge sealing methods for 226, NPT, etc.

## Technical Specifications

### Sizes (Cartridge Filter Housings Suitable For)

- 1 No. To 500 Nos. Of Cartridges in Single Housing
- 2", 2.5", 4" & 8" Diameter of Cartridge
- 10", 20", 30", 40", 50" & 60" Length of cartridge

### Flow Rate

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

## Applications

- |   |  |   |  |
|---|--|---|--|
| <ul style="list-style-type: none"><li>• Pharmaceuticals</li><li>• Petroleum Derivatives</li><li>• Water Treatment</li></ul> | <ul style="list-style-type: none"><li>• Food &amp; Beverages</li><li>• Bore Well water</li><li>• Dairy</li></ul> | <ul style="list-style-type: none"><li>• Coolants</li><li>• Paints &amp; Inks</li><li>• Processing Chemicals</li></ul> | <ul style="list-style-type: none"><li>• Dyes</li><li>• RO Pre filtration</li><li>• &amp; Many More</li></ul> |
|---|--|---|--|

## Material of Construction

- SS 316L | SS 316 | SS 304 | CARBON STEEL (ALL GRADE) | MILD STEEL | ALLOY METALS
- Super Duplex, Duplex stainless steel 2205
- POLYPROPYLENE • LEAD LINING on any metal
- RUBBER LINING on any metal
- TEFLON LINING 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
- NPT Threaded Connection Type

## Gasket/O Ring Material

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

## End Connections Available

- NPT / BSPT Threaded
- Flanged Table E / Table F
- ANSB 16.5 Flanged
- D N Standard
- Tri Clover Adaptors
- SMS/Dairy End Connection

