



Catalyst Recovery System

Designer-Manufacturer-Exporter-Supplier





Catalyst Recovery Systems

Catalyst recovery systems are normally used to recover the precious catalyst where in system required to recover fine particles of catalyst [such as platinum, palladium, Raney nickel, ruthenium] after it is used. These systems used in almost all industries like petrochemicals, pharmaceuticals, Refineries, Edible oil etc.

Operation

Contaminated fluid enters through Inlet Connection. It passes through the filter element where filtration takes place from outside to inside direction. Contaminants of stipulated micron size will capture on outer surface of filter element and clean fluid will pass through inner core of filter element and comes out at Outlet Connection. After certain time of operation suspended particles along with catalyst will deposit on the outer surface of filter element which results into gradual increase in pressure drop. Once system sense its preset differential pressure it gives signal to control panel through a pressure switch. Further drain valve and back purging mechanism gets into operation and the process of cleaning the filter element starts. Depending upon application demand for back purging medium like compressed air, nitrogen, gas, solvents and steam can be used. After completion of cleaning cycle fine particles of catalyst are collected through bottom drain valve or it is directly discharge to reaction vessel for next cycle of operation.

Construction

Catalyst recovery systems are constructed of filter housings, special type of filter elements, back purging mechanism, Control panels & other instrumentation. Catalyst recovery systems can be offered in various materials like SS-304, SS-316, SS-316L, Duplex material, carbon steel and alloy metal. Filter elements can be offered with Stainless steel wire mesh, Sintered metal powder, Random fiber / Sintered metal fiber & multi layered wire mesh. Filter elements are selected based on its applications demands.

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

Features & Benefits

- Customized designs are available
- High temperature resistance
- Positive sealing arrangement for avoiding bypassing
- Steam sterilisable
- End connections of 3/4" to 24" pipe
- Easy to operate
- Low maintenance
- Automatic operation to avoid manual intervention
- Can handle hazardous material without manual intervention

Technical Specifications

Material of Construction

- Super Duplex, Duplex Stainless steel 2205
- Stainless Steel-316L
- Stainless Steel-316
- Stainless Steel-304
- Carbon Steel (All Grade)
- Alloy Metals
- Apart from base material we can offer LEAD LINING, RUBBER LINING, PTFE coating on Any Metal

Configuration of Cartridges

- Code 7 (226 O' Ring) Design
- Code 3 (222 O' Ring) Design
- NPT Threaded Connection Type

Gasket / O Ring Material

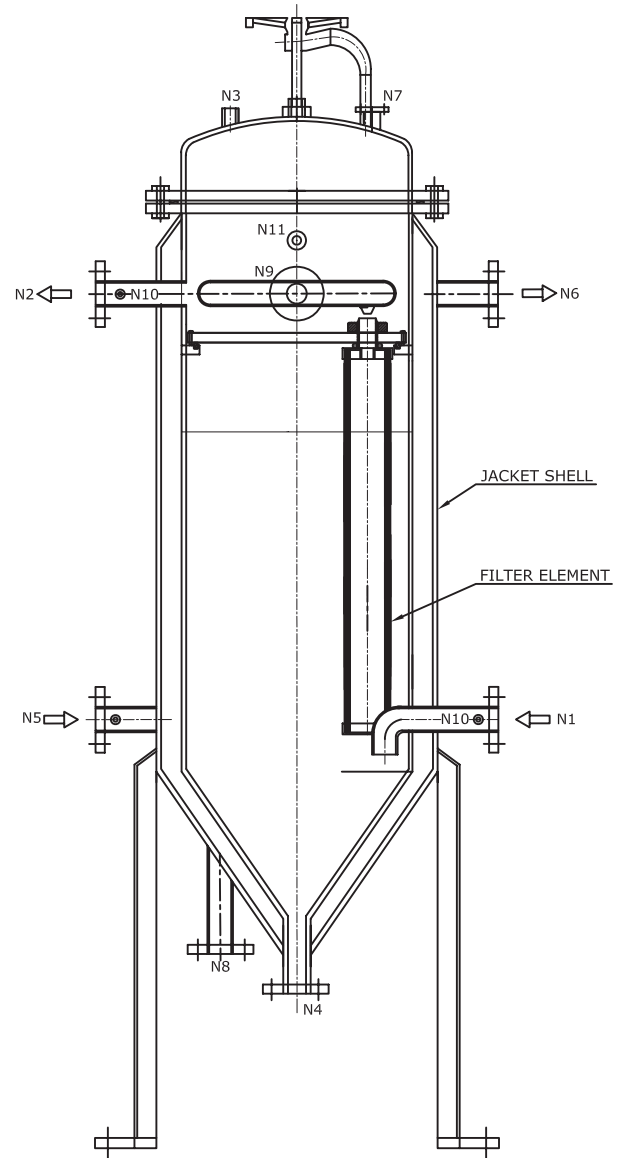
- Neoprene
- Nitrile
- Silicone
- Viton
- Buna N
- EPDM
- PTFE
- Spiral Wound
- CAF

End Connections

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

Applications

- Refineries
- Pharmaceuticals
- Petrochemicals
- Edible Oil





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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