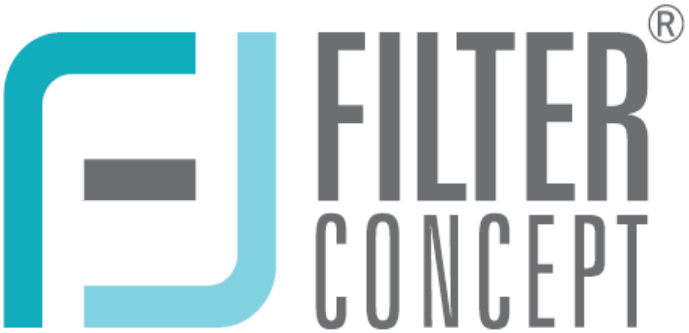

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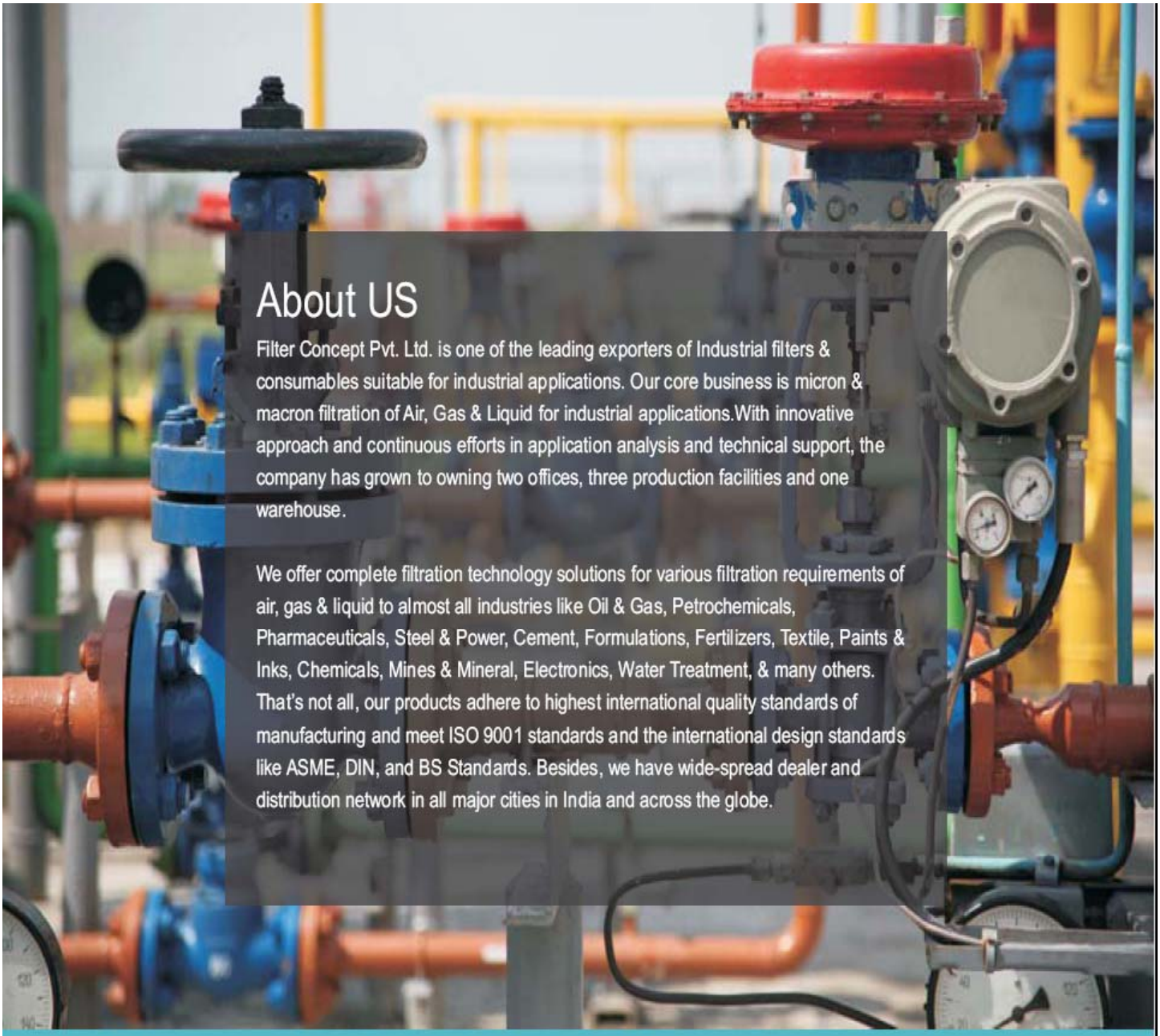

About US

Filter Concept Pvt. Ltd. is one of the leading exporters of Industrial filters & consumables suitable for industrial applications. Our core business is micron & macron filtration of Air, Gas & Liquid for industrial applications.With innovative approach and continuous efforts in application analysis and technical support, the company has grown to owning two offices, three production facilities and one warehouse.

We offer complete filtration technology solutions for various filtration requirements of air, gas & liquid to almost all industries like Oil & Gas, Petrochemicals, Pharmaceuticals, Steel & Power, Cement, Formulations, Fertilizers, Textile, Paints & Inks, Chemicals, Mines & Mineral, Electronics, Water Treatment, & many others. That's not all, our products adhere to highest international quality standards of manufacturing and meet ISO 9001 standards and the international design standards like ASME, DIN, and BS Standards. Besides, we have wide-spread dealer and distribution network in all major cities in India and across the globe.

10000+ Product Sub-Categories...

75+ Countries, We Export...

3500+ Satisfied Regular Industrial Customers...

50+ Industries, We serve...

Vision

To become a front runner Company in Filtration business by providing world class quality products and services to our customers and maintain highest level of customer satisfaction.

Mission

Growth of Company, Employees and Associates by adopting advanced technology, positive attitude, teamwork & innovative approach.

Corporate Culture

We, at Filter Concept Pvt. Ltd., have been working towards averting the existence of redundant and superfluous materials, particularly which are infectious in nature and can render air, gas, and liquid pollution.

Our company is one of the largest & fast growing entities dealing in most diverse filtration and purification systems in the world. We have been enabled by our technical expertise, product portfolio, and global reach in our consistent efforts to leverage opportunities across industries and geographical boundaries.

Our Strength

- Adequate Systems
- Dedicated Team
- Focused Associates
- Quality Maintain Systems
- Dealer/Distributor/Channel Partner Network Across the Globe
- 3500+ Satisfied Regular Customers

Certification

- ISO 9001:2008
- ISO 14001:2004
- OHSAS 18001:2007
- ASME 'U'
- ASME 'UM'
- The National Board Of Boiler & Vessel Inspectors 'R'
- The National Board Of Boiler & Vessel Inspectors 'NB'
- CE

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Quality

Since our inception, quality has been the sole guiding force. We have a separate department for maintaining the quality of our products. All the manufactured products are consigned to the department for inspection before their market release. Quality inspection is also an integral part of the manufacturing process. This process is separated stage-wise and the promotion of a product from one stage to another is subject to its fulfillment of prescribed quality criterions. We have a unique documentation system & material traceability systems for quality control of products. All our technicians are qualified in their respective areas.

Environmental Focus

To contribute to green development through the establishment and implementation of environment standards that are scientifically tested and meet the requirement of relevant laws, regulations and codes of practice like ISO 9001:2008 ISO 14001: 2007 & OHSAS 18001:2007 & ASME. We strive to minimize the environmental impact of the Industries' operations and business practices as well as to optimize the use of natural resources by our processes and products.

CSR Approaches

Filter Concept believes as a company we are responsive towards the well-being of our ecosystem which is under threat via numerous forms of pollution. Our commitment to the environment and social initiatives in urban development are as strong as our business accomplishments, and we constantly evaluate to improve our CSR initiatives through metrics. We, through CSR initiatives are disseminating our core values which are of excellence, integrity, tradition and unity.

Awards & Achievements

- An Award for Foundation for Accelerated Community Empowerment's - " Rashtra Vibhushan Award" For Outstanding Individual Achievement & Distinguished Services to the Nation
- An Award for CIDC Viswakarma Achievement Award-2013 For Academician / Scientist / Technologist / Innovator
- An Award for BEST MSME 2011 for outstanding Performance in Innovation in Technology in the state of Gujarat for the year 2011
- A Recognition certificate for outstanding performance in Quality & Environment Measures for Manufacturing Filter System in the state of Gujarat for the year 2011
- An Award For Excellence In Water Management - for Most Innovative Self Cleaning Filter Systems From Confederation of Indian Industry
- Aqua Excellence Award 2012 - from Aqua Foundation -2012
- Indian Achiever's Award For Manufacture Development" - from Indian Organization for Commerce & Industry
- Rajiv Gandhi Shiromani Award-2012 from Citizens Integration Peace Society
- Big Research Business & Service Excellence Award 2012 for Best manufacturer of Industrial Filters in Gujarat.
- Mother Teresa Excellence Award-2012 from Integrated Council for Socio-Economic Progress
- National industrial Excellence Award-2012 from National Economic Growth Times .
- Selected Quality Brands Gujarat -2012-2014 from National Economic Growth Times.
- Aqua foundation Award 2011 in the category of water & waste water treatment Systems & technology.
- National Level SME Innovation Awards 2011 from small & Medium Business development Chamber of India
- Bhartiya Udhyog Ratna Award – 2008

Exports

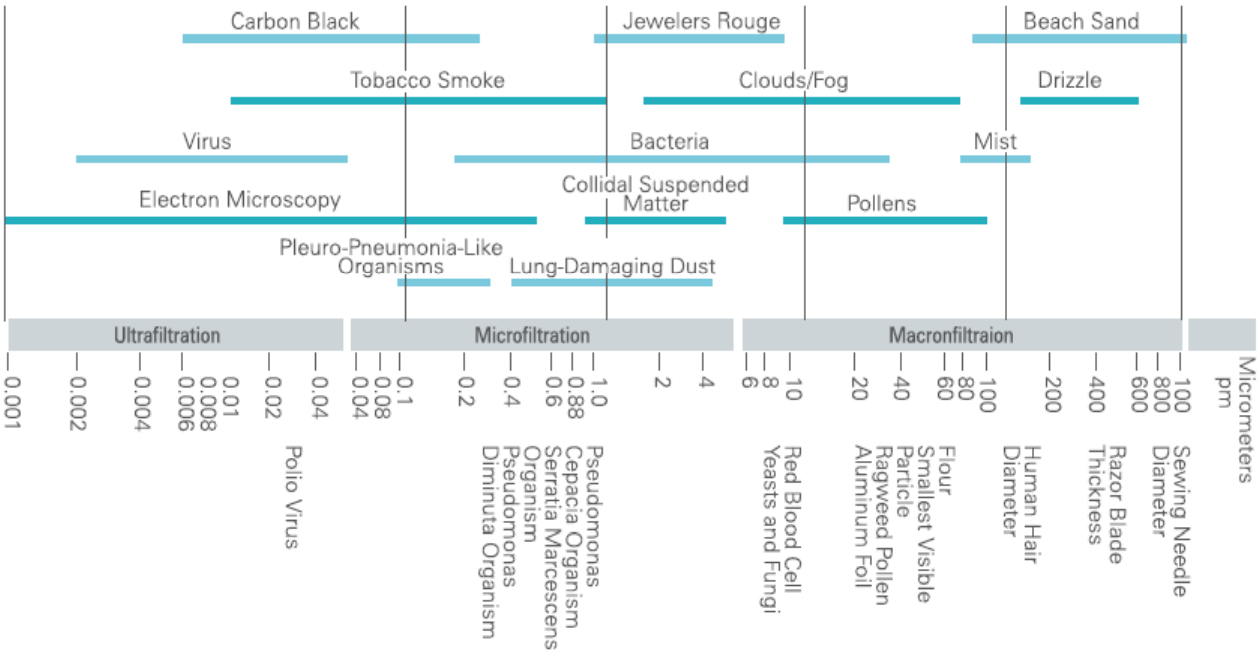
Filter Concept Pvt. Ltd. is a time honored Organization always endeavoring to satisfy our broad client base with our qualitative gamut of filtration solutions. We have a strong customer base of 3500+, which includes Top 500 companies of Indian Economy as well as International clients covered in Fortune 450+ Companies. We deliver Complete filter Solutions to the following countries:

U.S.A.	Egypt	Sweden	Belgium	Jordan	Tunisia	Indonesia
Canada	Kenya	Netherlands	Bulgaria	Kazakhstan	Zambia	Germany
Philippines	Australia	Denmark	Ireland	Syria	Mauritius	U.K.
Singapore	Brazil	France	Israel	Qatar	Venezuela	Italy
U.A.E.	Kuwait	Spain	Nepal	Yemen	Peru	South Africa
Russia	Oman	Malaysia	Bangladesh	Vietnam	Ecuador	Iran
Saudi Arabia	Czech Republic	Sri lanka	Bahrain	Taiwan	Thailand	

Our Most Valued Clients

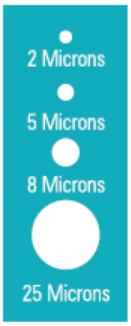
Basics of Filtration

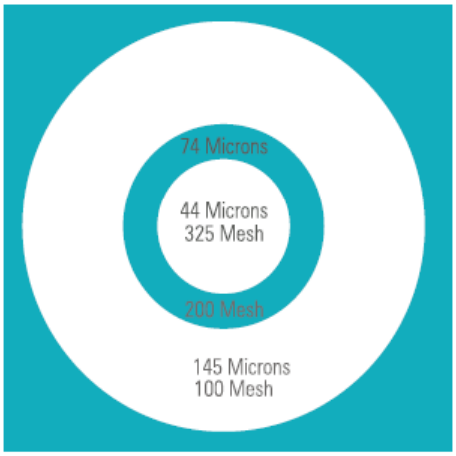
Relative sizes of particles



Micron Size

Particle	Size
Table Salt	100 Microns
Human hair	40 - 70 Microns
Talcum powder	10 Microns
Fine test dust	0.5 Microns
Pseudomonas diminuta	0.3 Microns





Magnified 500 times

Basics of Filtration

U.S.MESH	INCHES	MICRONS
3	0.265	6730
31/2	0.223	5660
4	0.187	4760
5	0.157	4000
6	0.132	3360
7	0.111	2830
8	0.0937	2380
10	0.0787	2000
12	0.0661	1680
14	0.0555	1410
16	0.0469	1190
18	0.0394	1000
20	0.0331	841
25	0.028	707
30	0.0232	595
35	0.0197	500
40	0.0165	420
45	0.0138	354
50	0.0117	297
60	0.0098	250
70	0.0083	210
80	0.007	177
100	0.0059	149
120	0.0049	125
140	0.0041	105
170	0.0035	88
200	0.0029	74
230	0.0024	63
270	0.0021	53
325	0.0017	44
400	0.0015	37

Note : Above Details are approximate values for reference & may not be 100% correct.

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Process Filtration-Systems

Process filtration segment deals with removal of suspended solids from liquid. It offers filtration from 0.2 to 1000microns.

- **Cartridge Filter System**
  - Cartridge Filter Housing
  - Hygienic Filter Housing
  - PVC Filter Housing
- **Catalyst Recovery Systems**
- **Bag Filter System**
  - Bag Filter Housing
  - Bag Vessel Assembly
  - PVC Bag Filter Housing
  - Plastic Liner bag Filter Housing
- **FRP Filter Housing**
- **Basket Filter & Strainer**
- **Self Cleaning Filter Systems**
  - Auto Backwash Filter
  - Auto Backflush Filter
  - Disc Type Filter
  - Scrapper Mehanism Filter

Cartridge Filter Housing

Cartridge filter system offers wide range of flow capacities & contaminant holding capacities. Cartridge filter housing diameters can accommodate around 1 to 500 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.

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

Features & Benefits

- Low pressure drop
- High dirt holding capacity
- Zero hold up design
- Permanently piped housing are opened without special tools and without disturbing the piping
- Machined cover gasket groove provide positive O-Ring sealing
- Easy to clean
- In-line inlet and outlet high flow rates
- Positive sealing arrangement to avoid bypassing
- Suitable for double open end (DOE), Code 7 (226 O'-Ring) & 222 O'-Ring type filter cartridge
- Accommodates 10", 20", 30", 40", 50" & 60" long filter cartridges.
- End connections for ¾" to 24" pipe
- V posts or threaded center posts
- Quick opening tri clovers design
- Easy to operate & low maintenance
- Low down time
- Flow rate up to 2000 m3/hr & More
- Customized design available
- Housings are permanently piped
- All housings made from SS 316 L, SS 316 & SS304 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 available
- Duplex / Triplex / Jacketed cartridge filter unit designs are available
- High temperature & high pressure design are available

Special Options

- Sanitary fittings and construction
- Higher pressure rating
- Housings of alloy steel
- Steam jackets
- Special outlet locations
- Optional cartridge sealing methods for 226, NPT, etc
- High temperature gasket designs

Technical Specifications

Sizes (Cartridge filter housings suitable for)

- 1 No. To 500 Nos. Of Cartridges in Single Housing
- 2" , 2.5" , 4" , 6" & 8" Diameter of Cartridge
- 10" , 20" , 30" , 40" , 50" & 60" Length of Filter cartridge

Cartridge Filter Housing Suitable For Filter Cartridges of

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

Flow Rate : Capacity: Up to 2000 m3/hr & more

Material of Construction

- FRP Housing
- SS 316L
- SS 316
- SS 304
- Super Duplex,
- Duplex SS 2205
- CS (All Grade)
- Mild Steel
- Alloy metals
- Polypropylene
- Lead Lining on Any Metal
- Rubber Lining on Any Metal
- PTFE Lining on Any Metal
- PTFE coating on any metal

Gasket / O Ring Material

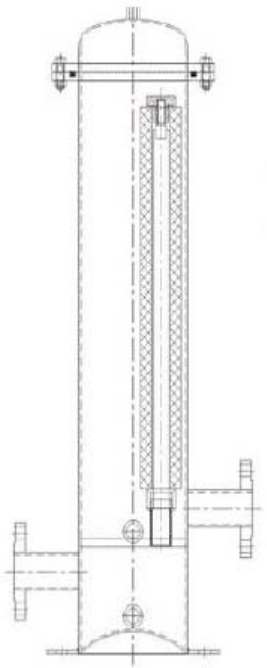
- Neoprene
- Nitrile
- Silicone
- Viton
- Buna N
- EPDM
- PTFE
- Spiral Wound
- CAF

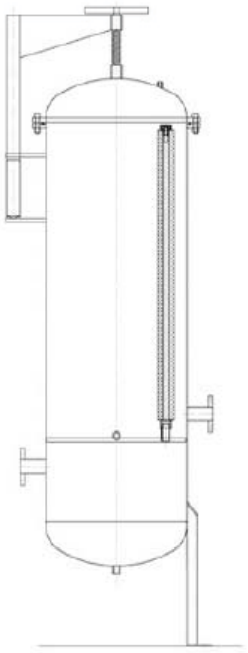
End connections available

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

Applications

- Pharmaceuticals
- Water Treatment
- Paints & Inks
- Bore Well water
- Dyes & Intermediates
- Processing Chemicals
- Petroleum Derivatives
- Coolants
- Food & beverages
- Dairy
- RO Pre filtration
- & Many More





Hygienic Filter Housing

Hygienic filter housing is manufactured from 316 stainless steel of the highest quality. These are suitable for a variety of liquid filtration applications designed to fit standard 222 O' Rings & 226 O' Ring cartridges. They have an integral bayonet locator providing an efficient seal between housing and cartridge. Depending on their type hygienic filter housing is available in 1, 3, 5 and 12 round configurations and in 10", 20", 30" and 40" length cartridge. Its hygienic design ensures low product hold up & reduces product loss.

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

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

- Integral cartridge location
- Low product hold-up
- Easy to clean
- Steam sterilisable
- EPDM seals / silicone
- Quick release housing clamp
- Hygienic clamp pipe fittings
- Full range of sizes

Hygienic filter housing can be steam sterilized in-situ in accordance with cartridge parameters. All housings are supplied with support legs, enabling free standing or in-line installation.

Technical Specifications

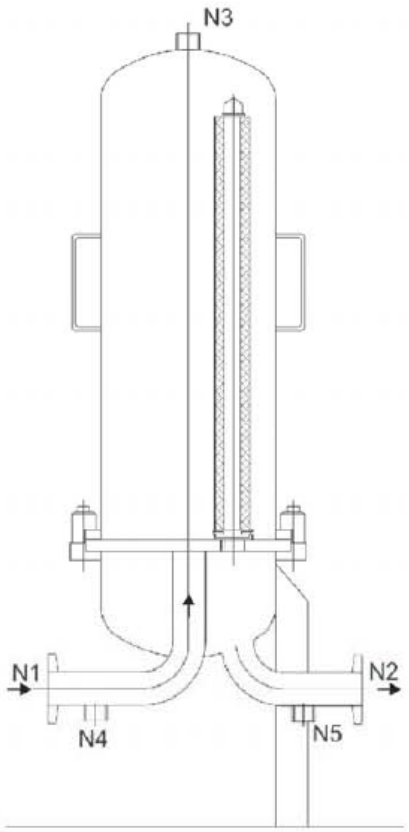
- Material of Construction : SS 316L
- Connections : Hygienic clamp type
- Surface treatment : Mirror polished & Electropolished
- Cartridge fitting : 222 / 226 'O' Ring (bayonet fit)
- Maximum Operating Pressure : 7 BARG (102 psig)
- Housing closure seal : EPDM / silicone O' Ring for single cartridge EPDM / silicone square 'O' Ring for multi cartridge

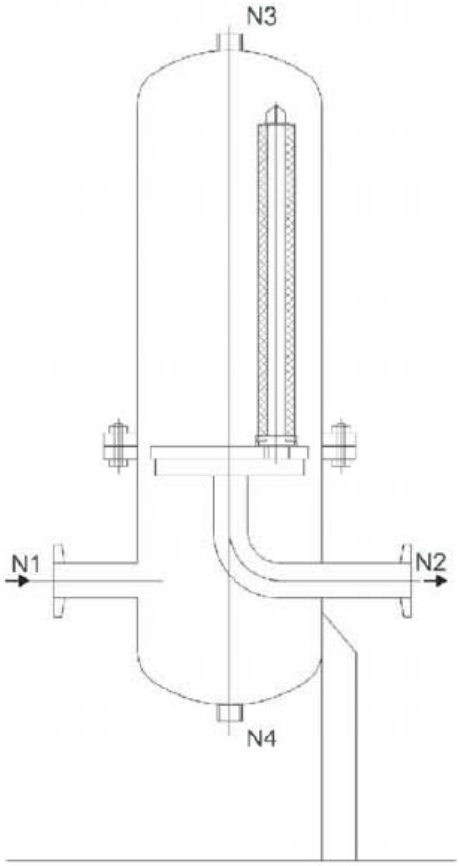
Addition Features

- Alternative connection types are available such as Table-E, Table-F, ASA 150#, and DIN.
- Standard seal materials are EPDM, Silicone or Viton options are available.
- A full range of pipe accessories are available such as clamps, seals, ferrules and hose liners.

Applications

- Food
- Dairy
- Beverage
- Electronics
- Pharmaceutical Industries





PVC CARTRIDGE FILTER HOUSING

PVC CARTRIDGE FILTER HOUSING

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

PVC CARTRIDGE FILTER HOUSING

Filter Concept PVC Filter Housings combine design simplicity with high filtering quality. PVC Filter Housings offers wide range of flow capacities & contaminant holding capacities. Cartridge filters are normally used as polishing filter in almost all process industries.

Technical Specifications

Material of Construction
- Filter Housing-PVC
- Bolt & Nut-SUS 316L

Inlet/Outlet
- FCPL-PCU-5 & FCPL-PCB-5 Series-1.5"BSP
- FCPL-PCB-9-3" BSP

Closure
- FCPL-PCU-5-Union
- FCPL-PCB-5 & FCPL-PCB-9-Bolt & Nut

Sealing
- Silicon O Ring

Pressure
- FCPL-PCU-5-Max. 60psi, Continuous 45psi
- FCPL-PCB-5 & PCB9-max 100psi, Continuous 75psi

FCPL-PCU-5 Series - 5 rounds with union closure
FCPL-PCB-5 Series - 5 rounds with bolt& nut closure
FCPL-PCB-9 Series - 9 rounds with bolt& nut closure

Applications
- Pharmaceuticals
- Petroleum Derivatives
- Water Treatment
- Coolants
- Paints & Inks
- Food & beverages
- Bore Well water
- Dairy
- Dyes & Intermediates
- RO Pre filtration
- Processing Chemicals
- & Many More

PVC BAG FILTER HOUSING

PVC bag filter housings provide an economical alternative to stainless steel. Bag filter systems are designed for high flow rates and high sediment holding capacity. Its range provides filtration solution for a broad variety of fluid applications in the process industry. They are particularly useful for filtering large volumes of high viscosity liquids.

Technical Specifications

Material of Construction
- Filter Housing-PVC
- Bolt & Nut-SUS 316L

Inlet/Outlet
- FCPL-PBU & FCPL-PBB - 2" ANSI Flange

Closure
- FCPL-PBU - Union
- FCPL-PBB - Bolt and Nut

Sealing
- Silicon O Ring

Pressure
- FCPL-PBU - Max. 60 psi, continuous 45 psi
- FCPL-PBB - Max.100 psi, continuous 75 psi

Applications
- Processing Chemicals
- Paints
- Petroleum Derivatives
- Inks
- Coolants
- Resins
- Cutting Oils
- Varnishes
- Cleaning Fluids
- Lacquers
- Vegetable Oils
- Pharmaceuticals
- Edible Oils
- Sugar Cyrup
- Polymers
- Plastsols

Catalyst Recovery System

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, rhenium and rhodium, Raney nickel, rhodenium] after it is used. These systems used in almost all industries like petrochemicals, pharmaceuticals, Refineries, Edible oil etc.

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

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.

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.

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

Technical Specifications

Material of Construction

- Super Duplex, Duplex SS 2205, Stainless Steel-316L
- Stainless Steel-316 & 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
- 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

Bag Filter Housing

Bag filter system is designed for optimum filtration performance. Its range provides filtration solution for a broad variety of fluid applications in the process industry. They are particularly useful for filtering large volumes of high viscosity liquids. Bag filter is constructed of filter housing, filter bags, internal cage to support bags, positive sealing arrangement, & choice of end connections. The internal support ensures bags will not burst as high differential pressures build up during operation.

Operation

Unfiltered fluid enters the housing and is distributed evenly around the filter bags. Filtration takes place from inside to outside. Solids are collected on the inside of filter bag for easy removal. The filtered fluid then exits through the outlet pipe.]

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

Features & Benefits

- High flow rates
- Low pressure drop
- High dirt holding capacity
- Positive sealing arrangement to avoid bypassing
- Suitable for PP Collar, Rigid Ring & Snap Band Bags
- Quick opening Tri Clovers & Fly nut design
- Easy to operate & low maintenance
- Low down time
- Flow rate up to 2000 m3/hr & More
- Customized design available
- Large-area, heavy-duty baskets
- Housings are permanently piped
- Covers are O'-Ring sealed
- All housings made from SS 316 L, SS 316 & SS 304 are mirror 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 available
- Multiple bag filter / Duplex bag filter / Jacketed bag filter unit designs are available
- High temperature & High pressure design are available
- Special options include filter bag hold-down devices, sanitary, Possibilities of different outlet connections, higher pressure ratings, extra-length legs, heat jacketing and adapters for holding filter bags & Magnets design bag filter.

Technical Specifications

Sizes

Bag filter system suitable for

- Ø 4" x 10" Long Filter Bag
- Ø 4" x 17" Long Filter Bag
- Ø 7" x 17" Long Filter Bag
- Ø 7" x 32" Long Filter Bag

Multiple bag filter system suitable for

- 2 Nos. Of Ø 7" x 32" Long Filter Bag
- 3 Nos. Of Ø 7" x 32" Long Filter Bag
- 4 Nos. Of Ø 7" x 32" Long Filter Bag
- 5 Nos. Of Ø 7" x 32" Long Filter Bag
- 6 Nos. Of Ø 7" x 32" Long Filter Bag
- 7 Nos. Of Ø 7" x 32" Long Filter Bag
- 8 Nos. Of Ø 7" x 32" Long Filter Bag
- 9 Nos. Of Ø 7" x 32" Long Filter Bag

Flow Rate

Capacity: Up to 2000 m3/hr

Material of construction

- SS 316L, SS 316, SS 304
- Super Duplex, Duplex Stainless steel
- CS [All Grade], Mild Steel
- Alloy Metals, Polypropylene
- Lead Lining / Rubber Lining / PTFE Lining on Any Metal

Bag filter suitable for bag configuration

- PP Collar Bag, Rubber Collar Bag
- Snap Band Bag, Rigid Ring Bag
- Flange Collar Bag

Gasket / O Ring Material

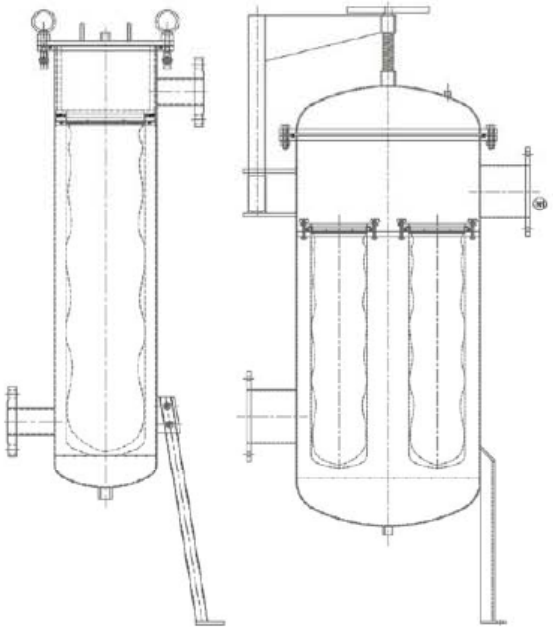
- Neoprene, Nitrile, Silicone, Viton, Buna N
- EPDM, PTFE

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

- Processing Chemicals
- Paints
- Petroleum Derivatives
- Inks
- Coolants
- Resins
- Cutting Oils
- Varnishes
- Cleaning Fluids
- Lacquers
- Vegetable Oils
- Pharmaceuticals
- Edible Oils
- Sugar Cyrup
- Polymers
- Plastsols



Bag vessel assembly keeps the filter system on stream by reducing bag filter change time. The single large acme thread closure ensures quick opening and positive sealing. Bag Vessel assemblies are light and portable. The bag vessel's economical price allows to install a preferred duplex system for totally uninterrupted flow rates. It is made of light weight corrosion resistant polypropylene to give all the strength without bulk. It has Fixed-head mounting and is compact enough to attach to any machine.

Operation

Unfiltered fluid enters the housing and is distributed evenly around the filter bags. Filtration takes place from inside to outside. Solids are collected on the inside of filter bag for easy removal. The filtered fluid then exits through the outlet pipe.

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

Features & Benefits

- All polypropylene construction
- High efficiency filtration
- Micron rating 1 to 200
- Snap lock bag sealing surface
- Positive sealing of different bag thickness
- Dynamic large 'O'-ring seal
- Compression bag sealing surface
- Knife edge sealing

Technical Specifications

Material Of Construction

- O-ring - Buna-N / EPDM / Silicone
- Cap - Polypropylene
- Sump - Polypropylene
- Gauge - Brass (Optional)
- Vent Plug - Polypropylene
- Drain Plug - High density Polypropylene (Opt.)
- Ball Valve - PVC / Buna-N Seals (Optional)
- Basket - Polypropylene / SS 304
- Gasket - Buna-N

Sizes

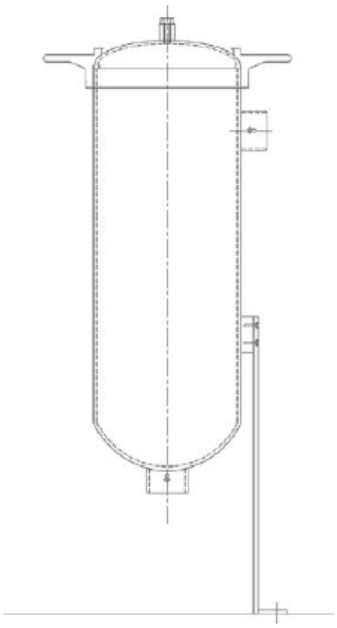
Bag filter system suitable for

- Ø4" x 10" Long Filter Bag
- Ø4" x 17" Long Filter Bag
- Ø6" x 20" Long Filter Bag

Flow Rate : Capacity: Up to 15000 lits /hr Per Unit & More

End Connections Available

- 1" NPT Inline , 1.5" NPT Inline & 2" NPT Inline



Plastic Side Liner Filter Housing

Plastic Bag Housing is made of 100% pure German made Polypropylene resin, by integrated one-piece injection molding technologies, featuring excellent resistance to pressure, corrosion and ultraviolet light attack. It is designed to use industrial standard Size two filter bags (Ø 7" X 32"long); Filter Housing has broad applications, and is ideal for high flow, corrosive and outdoor applications.

Features & Benefits

- Made by integrate one-piece injection molding. High overall product integrity and strength.
- UV inhibitor plastic formulation, ideal for extended outdoor applications
- Fiber glass reinforced structure for boosted pressure resistance
- Use industrial standard Size 2 filter bag. User friendly
- Filter bag seal: use patented bypass free SDS pressure seal ring, 100% bypass free guaranteed
- Effective top mounting lipped high pressure gasket
- Only one gasket seals the entire housing
- Inlet/outlet Connection: 2.0 BSP
- Inlet/outlet Configuration: Side-in, side-out, offline dual option
- Seal Gasket Materials: Buna-N & Viton
- Standard Package: Buna-N gasket, basket, vent valve, plastic bag holder
- Options: Polypropylene flange, plastic pressure gauge

Technical Specifications

• Max. clean water flow rate	:	45 m^3/Hr
• Filter bag surface area	:	0.50 m^2
• Vessel volume	:	32 liters
• Operating pressure	:	0.8 MPa
• Max. pressure allowed	:	1.0 MPa
• Operating temperature Max.	:	60ºC
• Qty. & size of filter used	:	1EA, # 2 filter bag

Applications

- Corrosive liquid processing
- Wastewater treatment
- RO system pre-treatment
- Desalination
- Fishery & hatchery
- Electro plating
- Electronics & semiconductor

FRP / GRP Filter Housing

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

Filter Concept Offers Corrosion resistant Fiber Reinforced Plastic (FRP) Filter housing to meet the demanding needs of industry to Filter corrosive and non-corrosive fluids for various applications including Chemicals, Oil and Gas, Petrochemical, Power Generation, Desalination, Potable Water, Municipal and many more Industries.

Operation

Contaminated fluid enters the housing and is distributed evenly around the filter cartridges/Filter Bags. Filtration takes place from outside to inside or Inside to outside depending upon flow patterns. Solids are collected on the outside of filter cartridges or Inside of the Filter Bags & clear filtrate is collected at outlet.

Features & Benefits

- Cost effective for Installation
- Low maintenance compared with other materials
- Excellent chemical resistance
- Easy to repair in case of accidental damage
- Light Weight & Long Life

Special Options

- Customized design available
- Positive sealing arrangement to avoid bypassing
- ASME Designs available

Technical Specifications

Sizes (FRP/GRP housings suitable for Cartridge Filter)

- 1 No. To 250 Nos. Of Cartridges in Single Housing
- 2", 2.5", 4", 6" & 8" Diameter of Cartridge
- 10", 20", 30", 40", 50" & 60" Length of Filter cartridge

Sizes (FRP/GRP filter housings suitable for Bag Filter)

FRP/GRP Bag filter system suitable for

- 04" x 10" Long Filter Bag
- 04" x 17" Long Filter Bag
- 07" x 17" Long Filter Bag
- 07" x 32" Long Filter Bag

Multiple bag filter system suitable for

- 2 Nos. Of 07" x 32" Long Filter Bag
- 3 Nos. Of 07" x 32" Long Filter Bag
- 4 Nos. Of 07" x 32" Long Filter Bag
- 5 Nos. Of 07" x 32" Long Filter Bag
- 6 Nos. Of 07" x 32" Long Filter Bag
- 7 Nos. Of 07" x 32" Long Filter Bag
- 8 Nos. Of 07" x 32" Long Filter Bag
- 9 Nos. Of 07" x 32" Long Filter Bag

Flow Rate

- Capacity: Up to 1000 m3 / hr & more

Material of construction

- Fiber Reinforced Plastic (FRP)
- Glass fiber Reinforced Plastic (GRP)
- POLYPROPYLENE

Cartridge filter housing suitable for filter cartridges of

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

Gasket / O Ring Material

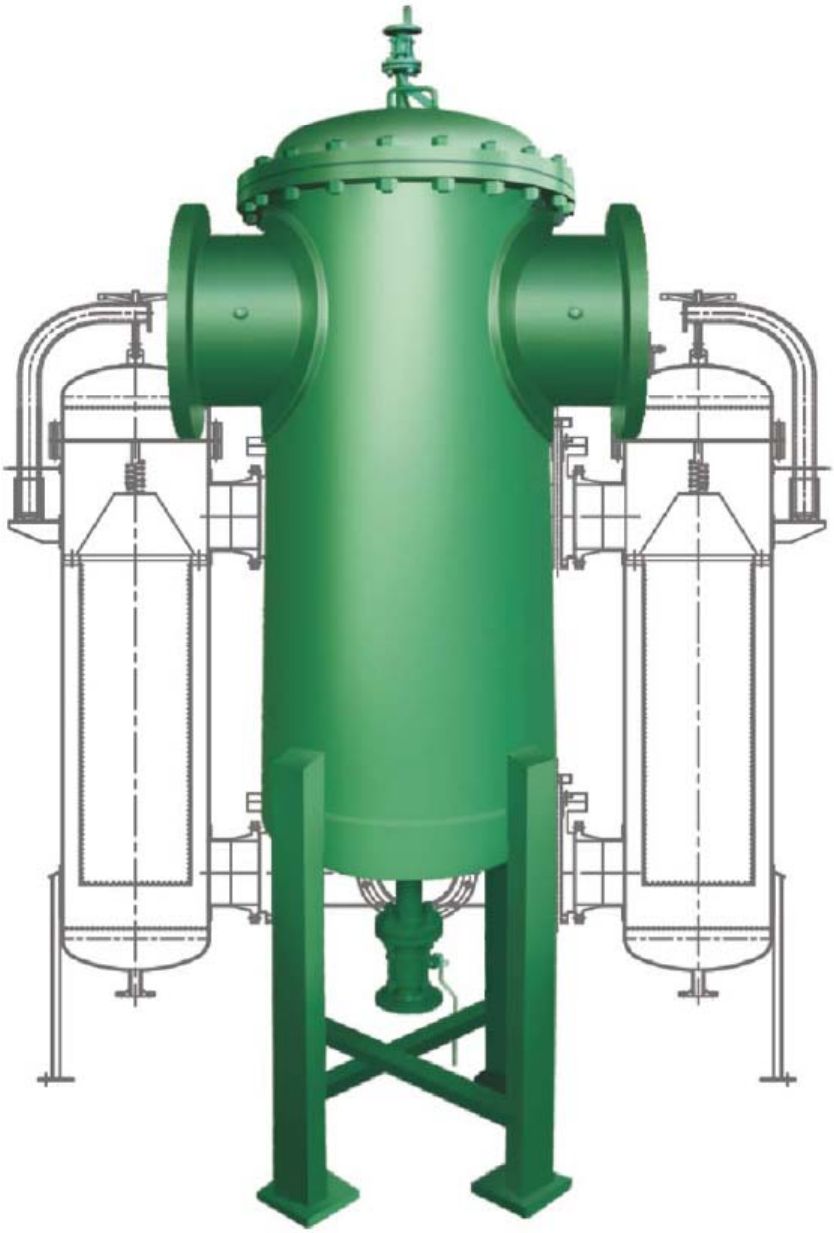
- Neoprene
- Nitrile
- Silicone
- Viton
- Buna N
- EPDM
- PTFE
- Spiral Wound
- CAF

End connections available

- NPT / BSP Threaded
- Flanged Table E / Table F
- ANSI B 16.5 Flanged
- DIN Standard

Applications

- Chemicals
- Pharmaceuticals
- Water Treatment
- Coolants
- Paints & Inks
- Food & beverages
- Bore Well water
- Dairy
- Dyes & Intermediates
- RO Pre filtration
- Processing Chemicals
- & Many More



Basket filters & strainers will permit the straining & filtering of a wide variety of fluids, to retain solids of almost any size. All baskets are easily removable & cleanable. Basket strainer elements can be offered in single cylinder, double cylinder, multi cylinder & pleated design depending upon requirement of application. They are constructed of filter housing, filter element supported with perforated cage, positive sealing arrangement to avoid any bypass & choice of end connections.

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

Operation

Unfiltered liquid enters the basket housing and passes down through them. Solids are retained inside / outside of basket depending upon design and are removed when the unit is serviced.They are available with insitu backwashing arrangement, wherein removal of baskets for cleaning is not required often.

Basket filters & strainers are normally supplied with spring arrangement at the top of filter element. This will ensure any type of bypassing & confirm the position of basket, even in case of reverse flow. Fluid bypass around the basket is prevented by an optional O'-Ring seal between the basket rim and the housing inside diameter.

Features & Benefits

- Large-area, heavy–duty baskets
- Low pressure drops
- Housing are permanently piped
- Covers are O'-Ring sealed
- Carbon steel, or stainless steel (304 Or 316) housing
- Easy to clean
- Option of insitu backwashing
- Filtration rating available from 5 micron to 2000 micron & more
- ASME code stamp available
- High pressure rating design available
- Flow rate up to 2000 m3/hr & More
- Customized design available
- All housings made from SS 316 L, SS 316 & SS304 are mirror polished to resist adhesion of dirt and scale
- Carbon steel housings are sand blasted, Epoxy coated & finally painted with two coats of synthetic enamel
- Liquid displacers for easier servicing
- Duplex / Triplex & Jacketed units available
- High temperature & high pressure design are available
- Normally designed for free flow area through screen, 4 – 6 times pipe flow area
- Choice of basket filter elements
  - Single cylinder design
  - Double cylinder design
  - Multi cylinder design
  - Pleated element design available for low pressure drop & high dirt hold

Duplex Basket Filter & Strainer

Duplex basket filter & strainer permits continuous operation because flow can be switched back and forth between two filter sections. This allows one side to be serviced while the other is in use. Normally duplex basket filters are separated with three way ball valves or two way ball valve/ butterfly valve connected with equalization tee, between two baskets filter housing.

Technical Specifications

- Sizes : 1" Line Size To 24" Line Size & More
- Flow Rate : Capacity: Up to 2000 m3 /hr & More

Material of Construction

- SS 316L, SS 316, SS 304 , SS Duplex
- CS (All Grade)
- Mild Steel
- Alloy Metals
- Polypropylene
- LEAD LINING / RUBBER LINING \ PTFE LINING with Any Metal

Basket element design available

- Single Cylinder / Double Cylinder / Multi Cylinder Design
- Pleated Element Design

Gasket / O' Ring Material

- Neoprene, Nitrile, Silicone , Viton , Buna N, EPDM , PTFE

Choice of valve available

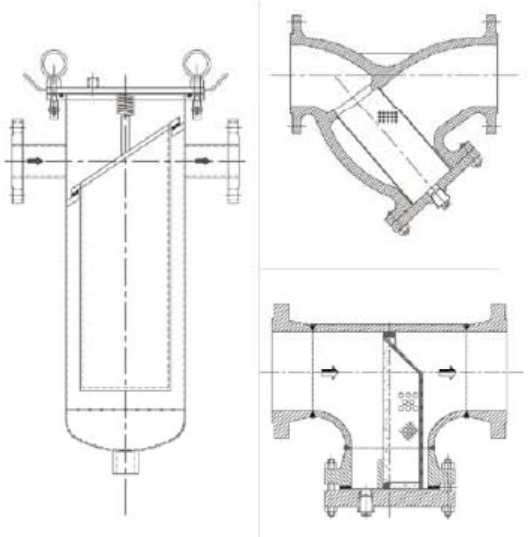
» Two way Ball Valve, Three Way Ball Valve & Butterfly Valve

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

- Power Plant
- Process Industries
- Cement Plant
- Steel
- Petrochemicals
- Fertilizers
- Refineries
- Oil & Gas
- Chemicals
- Textiles



Auto Backwash
Self Cleaning Filter Systems

Process Filtration

Auto back wash Self Cleaning Filter is used for Preliminary Filtration of demanding application of Various Industries.
Its very useful for applications where suspended solid load is Comparatively high & highly viscous material and slurry based filtration applications.

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

Construction

Auto Back wash type self-cleaning filter is constructed of filter housings, filter elements, drain valve, auto back wash valve and PLC controller. 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. For final filtration of 0.2 microns to 5 microns, sintered metal powder is a suitable filter media.

Customers can use pneumatically or electrically operated butterfly valve or ball valve as per their process requirement. Normally our systems are equipped with pneumatically operated solenoid valves for back washing and draining. Control panels can be offered with FLP (flame proof) and non-FLP, depending upon the process requirement.

Operation

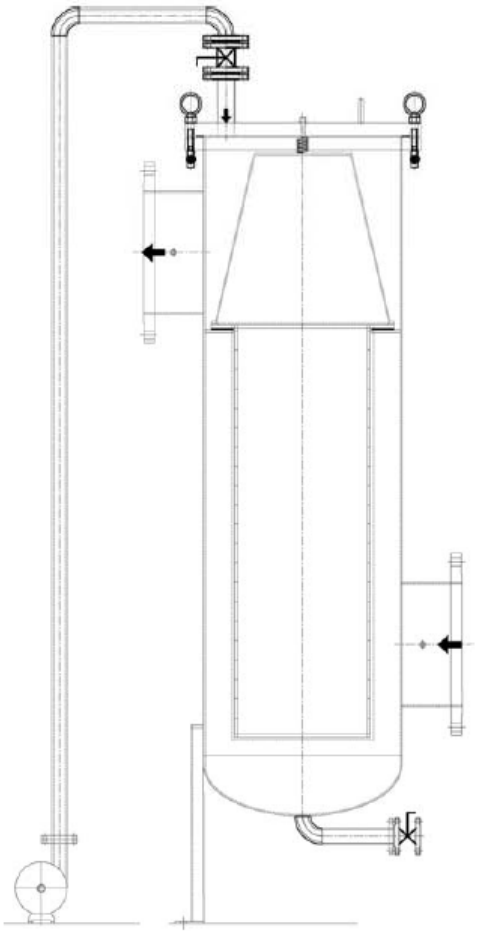
Auto Back wash type self cleaning filters work on a flow direction of outside to inside. Unfiltered fluid enters into filter housing through bottom tangential inlet connection. Contaminants are deposited on the outer surface of filter elements and clean filtrate passes through inside diameter of element and removed through the top tangential outlet. Users can set their differential pressure data within control panel. Once the differential pressure across the system reaches the pre-defined level of pressure drop, inlet and outlet valves shut down and the drain and backwash valves open for defined interval of time. During this process, debris deposited on outer surface of element shall be drained out and collected through bottom drain. This cycle continues as per pre-defined settings and process requirements. Auto Back wash type systems are available with multiple filter elements, wherein one element is in use and the other can be cleaned at the same time. This will help to have uninterrupted flow of the fluid.

Features & Benefits

- High filtration accuracy, stable filtrate quality and supply.
- Due to its own search and emergency operation function, self cleaning filter can do automatic back-washing and can cope with volatile fluctuations without manual intervention.
- Filtration equipment control system is unique and has a precise operation, which is to adjust back-washing pressure setting according to different sources and filtration accuracy in a flexible way.
- The system has high efficiency and strong recovery. Its cartridge can be used for longer period without replacement.
- During the back-washing process, each cartridge operates in turn and meanwhile the other cartridges continue the filtration process without being affected.
- Self cleaning filter has a drain valve, which has a short-back-washing facility and consumes less water, thereby saving water, power and energy source.
- Reasonable and compact structural design.
- No consumable material, low operation and maintenance cost, simple operation and management.

Applications

- Domestic water supply
- Tooth Paste
- Reverse osmosis
- Glycol
- softening
- Cooling water
- Ion exchange
- Reclaimed water
- Oil field
- Ground water
- Paint & Inks
- Surface water removal
- Solvents
- Boiler backwater
- Chemicals
- Swimming pools
- Latex
- Landscape water
- Adhesive
- Green spray
- Lubricants
- Agriculture irrigation water



Auto Backflush
Self Cleaning Filter Systems

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 than that with parallel configuration.

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

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

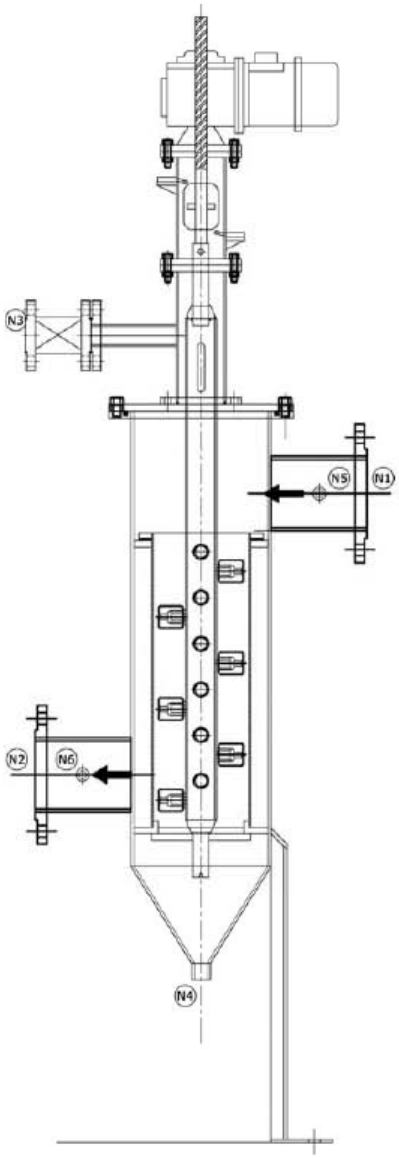
Filter element cleaning mechanism constructed of dust extraction assembly, which rotates inside the surface of filter element &moves upward- downward to ensure proper cleaning of filter element throughout the area. Dust extraction assembly is constructed of precisely designed nozzles at pre-defined distance 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. 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.

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

Applications

- Domestic water supply
- Tooth Paste
- Reverse osmosis
- Glycol
- softening
- Cooling water
- Ion exchange
- Reclaimed water
- Oil field
- Ground water
- Paint & Inks
- Surface water removal
- Solvents
- Boiler backwater
- Chemicals
- Swimming pools
- Latex
- Landscape water
- Adhesive
- Green spray
- Lubricants
- Agriculture irrigation water



Disc Type
Self Cleaning Filter Systems

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.

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

Filtration

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. For final filtration of 0.2 microns to 5 microns, sintered metal powder is a suitable filter media.

Customers can use pneumatically or electrically operated butterfly valve or ball valve as per their process requirement. Normally our systems are equipped with pneumatically operated solenoid valves for back washing and draining. Control panels can be offered with FLP (flame proof) and non-FLP, depending upon the process requirement.

Backwashing or Cleaning

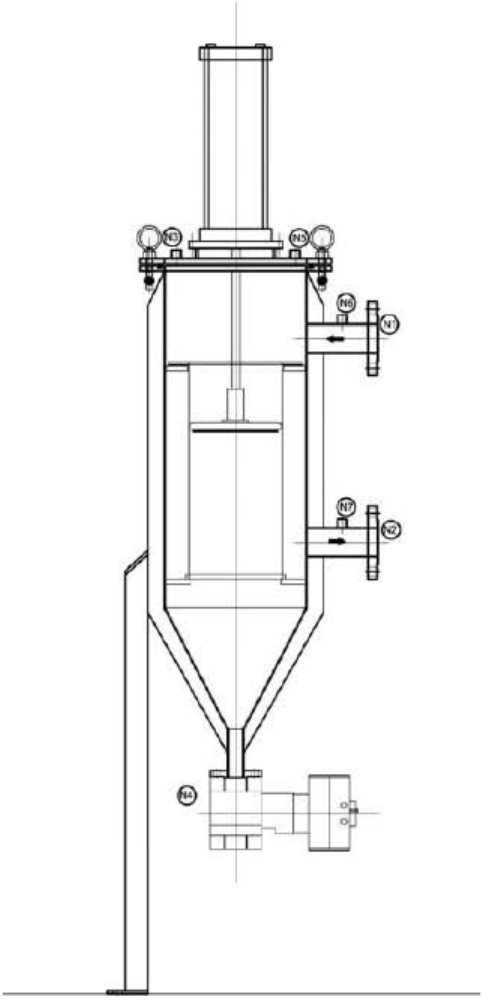
A spring-loaded cleaning disc moves up and down inside the filter screen and removes collected contaminants. The filtrate flows from top to bottom, and from inside of the screen to outside. The contaminants that are collected on the screen are easily removed and evacuated to the collection chamber. On 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.
- Disc type clean permanent cartridge.
- Reduces the risk of operators in contact with the dangerous material.
- Reduces the environmental pollution.
- 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 working.

Applications

- Domestic water supply
- Tooth Paste
- Reverse osmosis
- Glycol
- softening
- Cooling water
- Ion exchange
- Reclaimed water
- Oil field
- Ground water
- Paint & Inks
- Surface water removal
- Solvents
- Boiler backwater
- Chemicals
- Swimming pools
- Latex
- Landscape water
- Adhesive
- Green spray
- Lubricants
- Agriculture irrigation water



Scrapper Mechanism
Self Cleaning Filter Systems

Scrapper Mechanism Self Cleaning Filters are widely used for continuous filtration requirement without any replacement of Filter Consumables and without Exposure of operators. Like auto backwash filter, Scrapper Mechanism Self Cleaning is used for preliminary filtration following the same principle of differential pressure; the only difference is that it is used for applications where back washing medium is not available. In other words, Scrapper Mechanism Self Cleaning Filter is used where in one cannot introduce any additional substance for back washing.

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

Construction

Scrapper mechanism type self-cleaning filter is constructed of filter housings, filter elements, drain valve, and PLC controller. 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.

In addition, it has a scrapper mechanism which is operated by a geared motor. Customers can use pneumatically or electrically operated butterfly valve or ball valve as per their process requirement. Normally our systems are equipped with pneumatically operated solenoid valves for back washing and draining. Control panels can be offered with FLP (flame proof) and non-FLP, depending upon the process requirement.

Operation

The medium to be cleaned is guided into the filter by inlet, which passes from inside to outside through the cartridge gap. After filtration, the filtered fluid exits the filter housing from the top, opposite to the inlet connection and the bigger solids are separated on the surface of the triangular cartridge wires. When it runs for a certain time, the cartridge gap gets plugged up by impurities and meanwhile the differential pressure reaches its pre-set value. Then PLC inspects the signal and sends out the indication. The gear motor drives the scraper and the particles or agglomerates are skimmed from the surface, thereby keeping the function of cartridge well and keeping the cartridge gap clean.

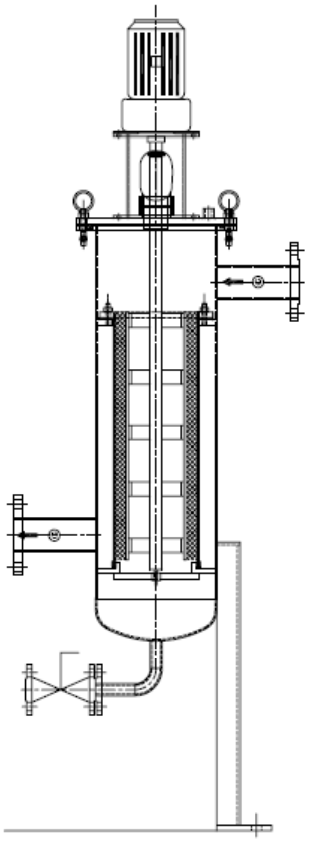
When the impurities at the bottom of the filter increases, the drain valve opens up and the impurities are emptied successfully, which makes the system pressure achieve normality. Because of well-set position and optimum scraping angle, the rotational scraper drains off the impurities from the filter with the help of the gear motor. This avoids the burden of taking apart the cartridge and washing it, which results into successful filtration of the medium. The scraper system contains stator, PTFE scraper and spring, which are designed for automatic cleaning, and especially for the reasonable spring pressure, maximally reducing the cartridge's abrasion.

Features & Benefits

- Because of automatic continuous on-line filtration, the filtration process becomes smooth.
- The gear motor runs against the spring actuated scraper and the concentrated solids are drained off by the system, thereby keeping the function of the cartridge well.
- PLC control function means differential-pressure cleaning, scheduling of cleaning process and manual cleaning. The differential-pressure is an important parameter for operation and can be connected with the central control room.
- Validated by practice, this filtration process is highly effective and using the wedge cartridge, it can be easily cleaned with less abrasion.
- In many fields, this filter can replace the traditional filters like sand filters, Filter press etc

Applications

- Domestic water supply
- Tooth Paste
- Reverse osmosis
- Glycol
- softening
- Cooling water
- Ion exchange
- Reclaimed water
- Oil field
- Ground water
- Paint & Inks
- Surface water removal
- Solvents
- Boiler backwater
- Chemicals
- Swimming pools
- Latex
- Landscape water
- Adhesive
- Green spray
- Lubricants
- Agriculture irrigation water



FILTER CONCEPT®

www.filter-concept.com

Process Filtration Consumables

Process filtration segment deals with removal of suspended solids from liquid. It offers filtration from 0.2 to 1000microns.

■ Filter Cartridges

- Spun Bonded Filter Cartridge
- Wound Filter Cartridge
- Polypropylene Cartridge
- PTFE Cartridge
- PES Cartridge
- Sintered Filter Cartridge
- Stainless Steel Cartridge
- Oil-Adsorbing Cartridge
- Jumbo Pleated Cartridge
- PP Pleated & Glass fiber Cartridge
- Resin-Bonded Filter Cartridge
- Carbon Cartridges

■ Filter Bags-Liquid

- Filter Bags-Liquid
- Felt Bags
- Mesh Bags
- Monofilament Mesh Bags
- Extended life Felt Bags
- Extended life Mesh Bags
- Durable Felt Bags
- Oil Adsorbing Bags
- Absolute Bags
- Pleated Felt Bags
- Pleated Absolute Efficiency Bags
- Dual Flow Bags
- Carbon Bags

Spun Bonded Filter Cartridges

Process

Spun bonded filter cartridges are made up of 100% polypropylene fibers. The fibers have been carefully spun togeth
gradient density from outer to inner surface. Filter cartridges are available with core & without core version. The sup
remains integral even under severe operating conditions and there is no media migration. Polypropylene fibers are b
on central molded core, without any binders, resins or lubricants.

optional & not covered as standard scope of supply

Salient Features

- Free of surfactants, binders and adhesives
- Excellent flow with low pressure drop
- High dirt holding capacity
- 100 % Polypropylene for wide chemical compatibility
- High strength & pressure resistance
- One piece construction up to 1016 mm & more
- Nominal & absolute filtration rating
- NSF42 and FDA CFR title 21 Certified cartridges are available.
- All housings made from SS 316 L, SS 316 & SS304 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 available
- Duplex / Triplex / Jacketed cartridge filter unit designs are available
- High temperature & high pressure design are available

Technical Specifications

- Sizes : 10", 20", 30", 40", 50", 60" Long
- Micron Rating : 1, 5, 10, 25, 50, 75, 100
- Outer Diameter : 64 mm (2.5"), 114 mm (4.5"), (150 mm) 6", 8"
- Inner Diameter : 25mm, 28 mm, 48 mm

Configuration

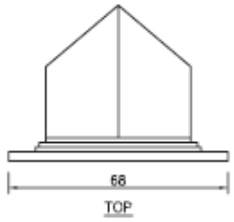
- Double Open Type (DOE Type)
- Code 7S (226 O' Ring Design / Bayonet)
- Code 7F (226 O' Ring Design / Flat)
- Code 3S (222 O' Ring Design / Bayonet)
- Code 3F (222 O' Ring Design / Flat)

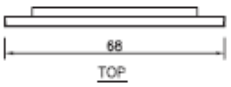
Construction

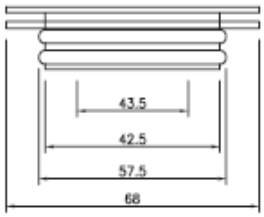
- Spun bonded filter cartridges are made up of 100 % poly proplyne.

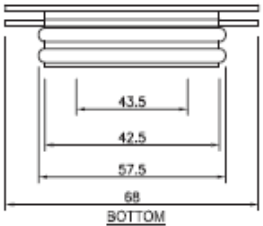
Applications

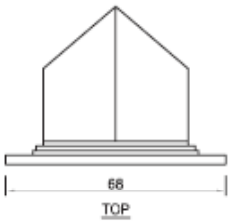
- Food & Beverages : Bottled water, Flavors, Polishing Lines
- Pharmaceuticals : Base product clarifications, Membrane prefilter
- Fine Chemicals : Solvents, Process Streams, Water Purification
- Magnetic coating : Dispersions, Coating Lines, Solvents
- Petrochemicals : Water flood, Comletion Fluids, Amines
- Cosmetics : Alcohols, Essential oils , Water lines
- Water Treatment : Membrane Protection, Resin Trap
- Metal Finishing : Plating solution, paint and resin products, Wash
- Electronics : Electroplating, Etching, Image development

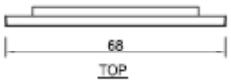


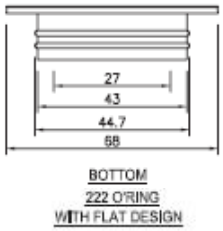




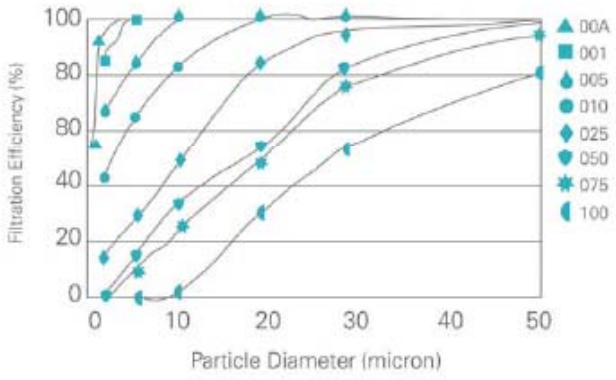




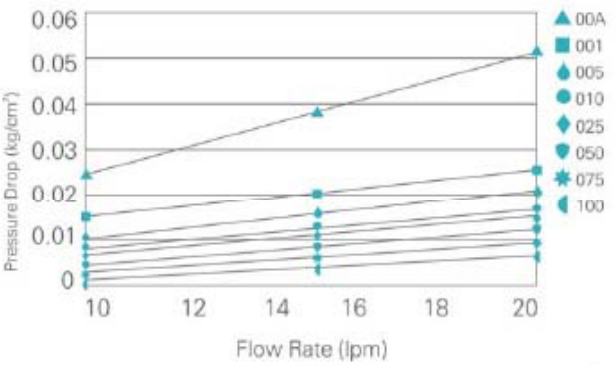




Efficiency of Filtration



Initial Pressure Drop



Wound Filter Cartridges

Wound cartridges are designed to meet the most demanding filtration duties. They offer an economic, compact, easily installed and maintained filtration system for removal of particulates from liquid. Wound cartridges are manufactured from a variety of carefully selected raw materials. These are processed into fibers of specific grades using the latest technology. After carding & spinning into roving they are wound into cartridges with carefully controlled micron rating. From raw materials to finished products we are in control of the quality and filtration characteristics. They are appreciated due to high dirt holding capacity and its rugged construction which allows facing different applications in liquid and gas filtration.

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

Operation

Unfiltered fluid passes through depth filter matrix, which enables the progressive retention of finer particles, providing high efficiency, high dirt retention & long filter life. Fluid flows from outside to inside through filter media. Particulates are held securely in the filter matrix and clean fluid flows to the downstream side of cartridge.

Features & Benefits

- Standard and customized sizes to fit most housings
- Filtration rating from 1 to 100 Micron
- High strength & pressure resistance
- Manufactured in continuous length
- Full range of sizes from 10" to 60" Length
- Excellent flow with low pressure drop
- High dirt holding capacity
- Compatible with a wide range of fluids
- NSF & FDA approved filter cartridges are available.

Technical Specification

- Sizes :10", 20", 30", 40", 50", 60" Long
- Micron Rating :1, 5, 10, 25, 50, 75, 100
- Outer Diameter :64 (2.5") 100 (4"), 110(4.5") 6", 8"
- Inner Diameter :28mm

Configuration

- Double Open Type (DOE Type), 226 'O'Ring Design & 222 'O'Ring Design.

Construction

- Polypropylene with polypropylene core
- Cotton with stainless steel core
- Glass fiber with stainless steel core

Applications

Polypropylene wound filter cartridge

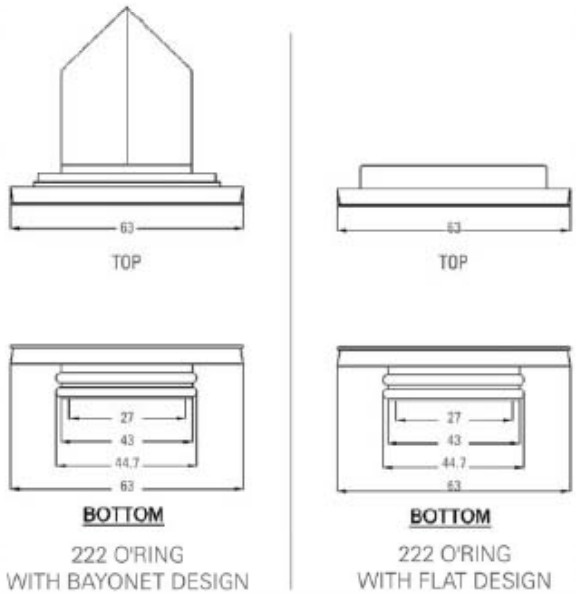
- Organic Acids
- Oils
- Concentrated Alkalis
- Water
- Organic solvents
- Electroplating solution
- Photographical process fluid

Cotton wound filter cartridge

- Vegetable Oils
- Dilute Acids
- Alkalis
- Organic solvents
- Portable liquids

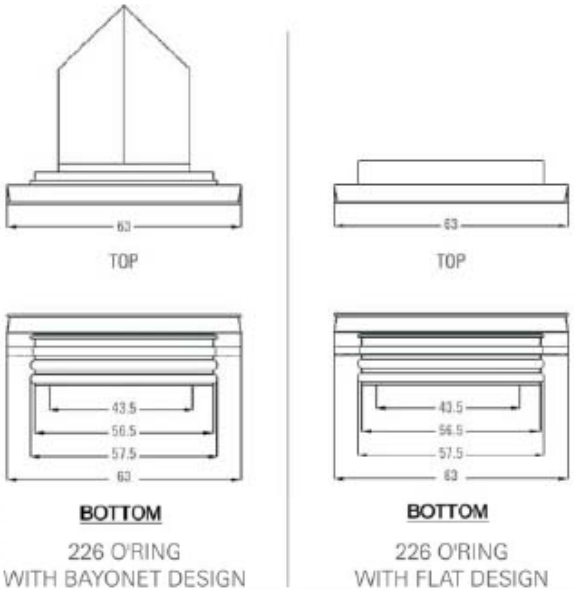
Glass fiber wound filter cartridge

- High temperature filtration of Mineral Acids, Organic solvents, Oils



222 O'RING WITH BAYONET DESIGN

222 O'RING WITH FLAT DESIGN



226 O'RING WITH BAYONET DESIGN

226 O'RING WITH FLAT DESIGN

Polypropylene Pleated Filter Cartridge

Polypropylene filter cartridges are precisely manufactured for use in critical filtration applications within food, pharmaceuticals, biotech, dairy, beverages, brewing, semiconductor, water treatment & other demanding process industries.

Polypropylene pleated cartridges use the very latest gradient density micro fiber media technology to provide a combination of excellent micron ratings, high flow rates and high contaminant holding capacities. A special combination of polypropylene media with variation in the fiber diameter creates a gradient density matrix, ranging from open on the outside to finer on the inside, thereby providing a filter with in filter, which considerably increases contamination holding capacity & throughputs.

All components used in the manufacturing process are biologically safe, chemically inert and meet FDA and other international quality requirements. Polypropylene offers an extremely broad chemical compatibility making it suitable for many applications.

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

Features & Benefits

- All polypropylene construction
- Absolute & nominal efficiency
- 0.1 to 40 Micron ratings
- Gradient density micron fiber media
- High surface area more than 0.5 m2 per 10" filter
- Robust outer cage
- Biologically safe
- Wide chemical compatibility
- No fiber migration
- Thermally welded construction
- FDA approved filters
- End connections to fit all standard housings

Technical Specifications

- Sizes :10", 20", 30", 40" Long
- Micron Rating :0.1, 0.2, 0.45, 1, 5, 10, 20 Micron
- Outer Diameter :69 mm
- Inner Diameter :28 mm

Configuration

- Double Open Type (DOE Type)
- Code 7S (226 O' Ring Design / Bayonet)
- Code 7F (226 O' Ring Design / Flat)
- Code 3S (222 O' Ring Design / Bayonet)
- Code 3F (222 O' Ring Design / Flat)

Construction

- Filter Media :100% Melt blown micro denier PP fiber
- Support Media: Polypropylene fiber
- Inner Core : High strength polypropylene
- Outer Core : High strength polypropylene
- End Caps : High strength polypropylene
- O Ring / Gaskets : EPDM / Buna N / Silicone / Viton

Applications

Fine Chemicals and Pharmaceuticals

- D.I. Water
- R.O. Prefiltration
- Biological Fluids
- Oral Drugs
- Ophthalmic Liquids

Photographic Film & Paper

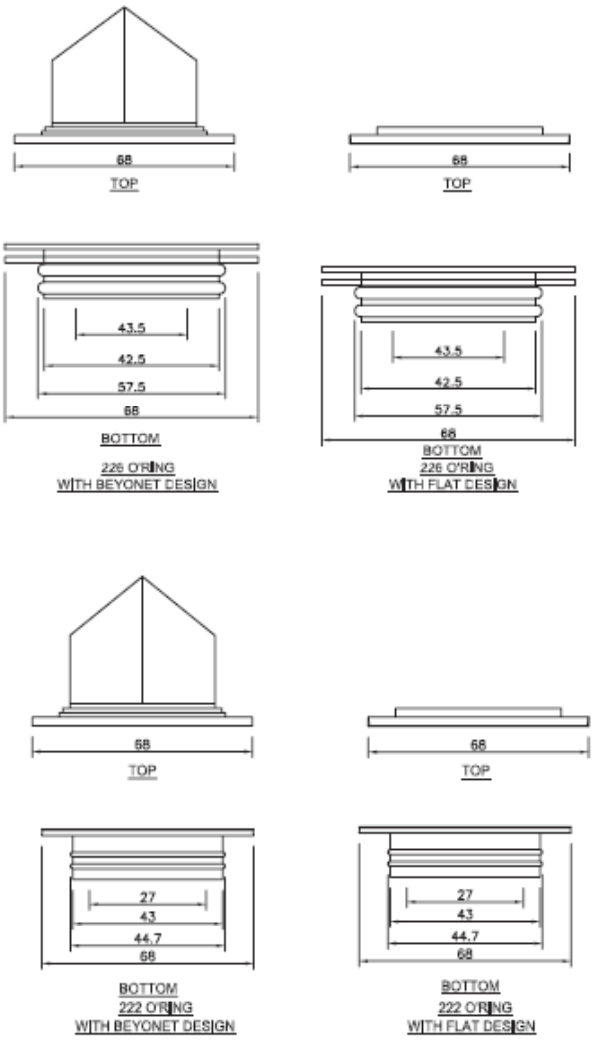
- Anti-Halation Coatings
- Developer Chemicals
- Emulsions
- Gelatins

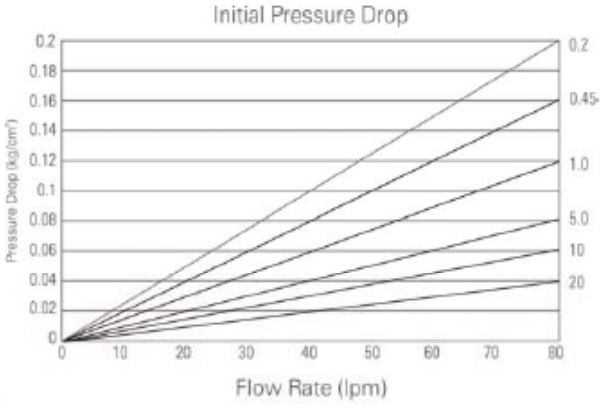
Beverages

- Wine
- Alcohols
- Fruit Juice
- Beer

Electronic and Semi-Conductor

- De-ionized Water Prefiltration
- Magnetic tapes
- Premix Resins
- Tape Coatings
- Photoresists
- Metal Oxide Dispersions
- Solvents





PTFE -Poly Tetra Fluoro Ethylene Filter Cartridge

PTFE Cartridges are made up of poly tetrafluroethylene. PTFE is characterized by high chemical inertness. These are specifically designed for sterile filtration applications of liquid, air & gas streams. They are certified bio safe, non pyrogenic & fully validated to pharmaceutical standards. PTFE and polypropylene, the unique two materials used in cartridge manufacturing are chemically inert, not shedding and biologically safe according to F.D.A., USP and EEC requirements for pharmaceutical and food contact use. PTFE cartridge membrane is used in filtering the highly corrosive solutions such as strong acids, base solution and solvents. The membrane has about 80 – 95 % porosity & uniform pore size distribution. Moreover, the filtration area of each cartridge is as high as 0.7 m2. Therefore it offers high flow rate, low pressure drop & long service life. These can be steam sterilized directly or reverse as per standard operating data.

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

Features & Benefits

- PTFE membrane has excellent chemical resistance
- End caps and connectors are sealed by thermal bond, free from binder.
- Low pressure drop and high flow rate due to high filtration area of 0.7 m2 Per 10" cartridge
- Inherently hydrophobic expanded PTFE micro porous membrane for broad chemical compatibility & to prevent moisture obstruction in venting & wet air filtration
- Absolute rated & precisely controlled pore size distribution for superior & constant bacterial retention
- Autoclave or in situ steam sterilization features
- Integrity test is possible
- FDA approved

Technical Specifications

- Sizes : 10", 20",30"40" Long
- Micron Rating : 0.05, 0.1, 0.2, 0.45 , 1 Micron
- Filtration Area : More Than 0.7m2/10" cartridge
- Outer Diameter : 69 mm
- Inner Diameter : 28 mm

Configuration

- Double Open Type (DOE Type)
- Code 7S (226 O' Ring Design / Bayonet)
- Code 7F (226 O' Ring Design / Flat)
- Code 3S (222 O' Ring Design / Bayonet)
- Code 3F (222 O' Ring Design / Flat)

Construction

- Filter Media : 100% PTFE Membrane
- Support Media : Polypropylene fiber
- Inner Core : High strength polypropylene
- Outer Core : High strength polypropylene
- End Caps : High strength polypropylene
- O Ring / Gaskets : EPDM / Buna N / Silicone / Viton

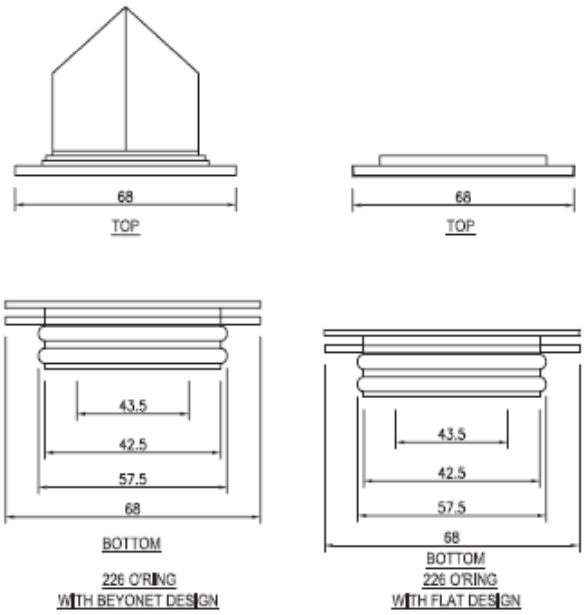
Applications

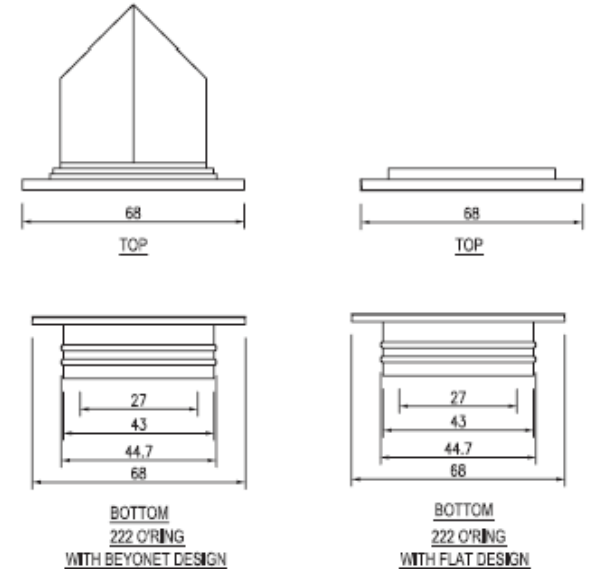
Pharmaceuticals

- Sterilization of inlet & exhaust flow
- Vent filter
- Gas purification (like nitrogen & others)
- Compressed air (sterile grade)
- Acid / Solvents & base filtration
- Wet etching process

Electronics Industries

- Semi conductors
- CD-R & DVD – R factory
- Fine filtration of DI water
- Photoelectron chemical filtration





PES- Poly Ether Sulphone Filter Cartridge

PES Cartridges are made of poly ether Sulphone with uniform pore distribution to ensure maximum performance in bacterial retentions. It's upstream & down stream polyester support ensures resistance to pressure shocks. Polyethersulphone membrane is hydrophilic in nature, it allows easy integrity testing for all applications where daily controls are required. The membrane possesses broad chemical compatibilities & contains no surfactants. PES Cartridges are produced in controlled environments & under stringent production conditions that ensure filter quality & cleanliness. These are assembled integrally by thermowelding. This process minimizes the presence of oxidization of substance & yield a durable filter cartridges suitable for extended use. This can be sanitized by chemical agents or by inline steaming. PES and polypropylene, the unique two materials used in cartridge manufacturing are chemically inert, not shedding and biologically safe according to F.D.A., USP and EEC requirements for pharmaceutical and food contact use. The filtration area of each cartridge is as high as 0.7 m2. Therefore it offers high flow rate, low pressure drop & long service life.

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

Features & Benefits

- PES Membrane is inherently hydrophilic with excellent hydrolytic stability & chemical compatibility
- Specific pore size distribution for full bacterial retention to ensure sterile effluent even under process upsets
- End caps and connectors are sealed by thermal bond, free from binder.
- Low pressure drop and high flow rate due to high filtration area of 0.7 m2 Per 10" cartridge
- Absolute rated
- Autoclave or in situ steam sterilization features
- Integrity test is possible
- FDA approved

Technical Specifications

- Sizes : 10", 20",30"40" Long
- Micron Rating : 0.05, 0.1, 0.2, 0.45 , 1 Micron
- Filtration Area : Morethan 0.7m2/10" cartridge
- Outer Diameter : 69 mm
- Inner Diameter : 28 mm

Configuration

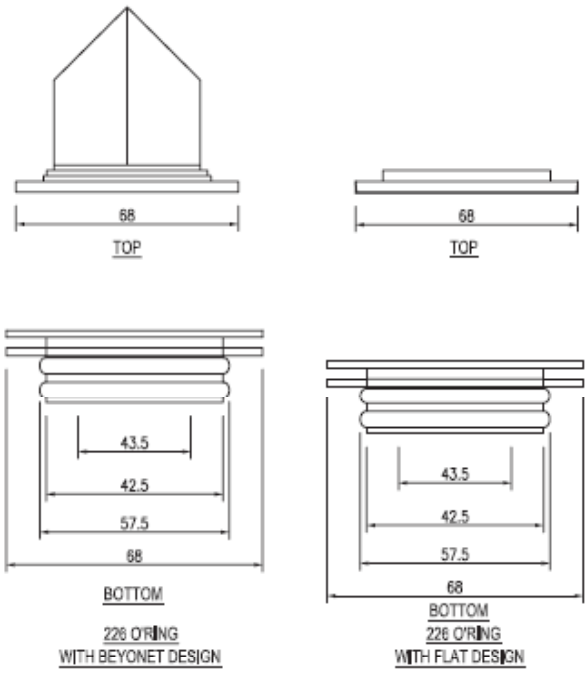
- Double Open Type (DOE Type)
- Code 7S (226 O' Ring Design / Bayonet)
- Code 7F (226 O' Ring Design / Flat)
- Code 3S (222 O' Ring Design / Bayonet)
- Code 3F (222 O' Ring Design / Flat)

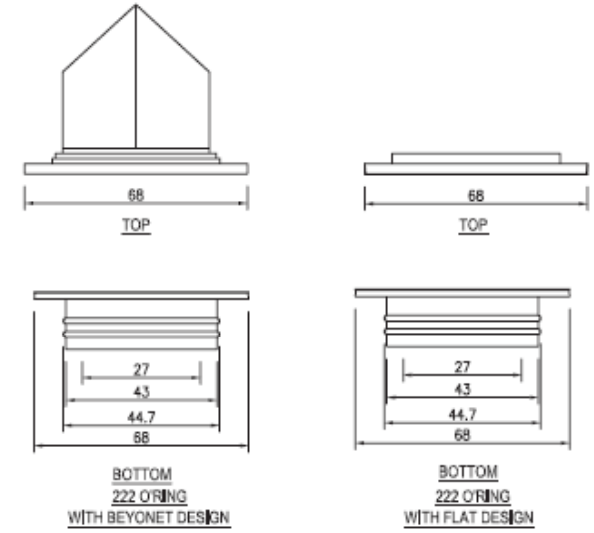
Construction

- Filter Media : PES (Poly Ethersulphone) Membrane
- Support Media: Polypropylene fiber
- Inner Core : High strength polypropylene
- Outer Core : High strength polypropylene
- End Caps : High strength polypropylene
- O Ring / Gaskets: EPDM / Buna N / Silicone / Viton

Applications

- Pharmaceuticals
- Food & Beverages
- DI water Filtration





Sintered (Non - Metallic) Filter Cartridge

Sintering is a process for making articles from its base material in powder .They are made by mixing elemental or alloy powders and compacting the mixture in a die, the resultant shapes are then sintered or heated in a controlled atmosphere furnace to bond the particles. Sintering is traditionally used for manufacturing ceramic objects and after that it is used for filtration application.

Due to sintering process, particles join with each other and form a porous structure which allow any fluid , air or gas to pass through without disturbing its structure. This structure is robust in nature to handle particle above stipulated micron rating. Such elements are back washed some time for cleaning purpose to remove deposited particle load. These sintered solid filters are able to withstand very high differential pressure across the filters.

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

Features & Benefits

- Made of single base material, hence free from any binder
- Specific Pore size distribution due to sintering process
- Withstand very high differential pressure
- High void volume compared to conventional sintered material
- Easy to clean & back wash
- Wide chemical compatibility

Technical Specifications

- Sizes : 10", 20",30"40" Long
- Micron Rating : 1, 5, 10 , 25, 50 , 100 Micron
- Outer Diameter: 64 mm , 70 mm
- Inner Diameter: 28 mm , 40 mm

Configuration

- Double Open Type (DOE Type)

Construction

- Sintered Polypropylene
- Sintered Polystyrene
- Sintered Acrylonitrile
- Sintered Ceramic
- Sintered Polyethylene

Applications

- Compressed air filtration
- Gas filtration
- Fine Chemicals Purification : Solvents, Process Streams, Water
- Magnetic coating : Dispersions, Coating Lines, Solvents
- Petrochemicals : Water flood, Comletion Fluids, Amines
- Cosmetics : Alcohols, Essential oils , Water lines
- Water Treatment : Membrane Protection, Resin Trap
- Metal Finishing : Plating solution, paint and resin products,Wash
- Electronics development : Electroplating, Etching, Image

Stainless Steel Filter Cartridges

Stainless steel cartridges are designed to overcome the temperature and chemical compatibility limitations of fabric or synthetic fiber media. This will offer very high temperature resistance & can withstand high differential pressure. Stainless steel cartridges are offered in SS 304, SS 316, & SS 316 L materials. These elements can be plain cylindrical or in pleated configuration to increase filtration area. Normally all stainless steel pleated & cylindrical filters are supported with coarser filter media to ensure no direct damages to main filtering media under process upsets. A bubble point test can be done to certify that no opening larger than the specified pore size exist in product joints or seams. No media migration occurs due to stainless steel material. These elements can be back washed & reused.

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

Type Of Filters

- Stainless steel wire mesh type
- Stainless steel sintered metal powder type
- Stainless steel random fiber / sintered metal fiber type
- Stainless steel multi layered wiremesh

Type Of Filter Design

- Plain cylindrical design
- Pleated configuration design
- Welded design

Features & Benefits

- Stable pore shapes
- High permeability
- Low pressure drop
- High dirt-holding capacity (longer lifetime)
- High temperature resistance
- High differential pressure, with stand capacity
- Strong corrosion resistant
- Back flushing
- Excellent mechanical strength
- No media migration
- Customized Sizes available

Construction Of Sintered Material

The composite fiber material is sintered together with a wire mesh under vacuum conditions and rolled to form mats of a specific thickness. Stainless steel cartridges can be wrought into tubes, cartridges or disks, plain, pleated or according to customer requests.

Technical Specifications

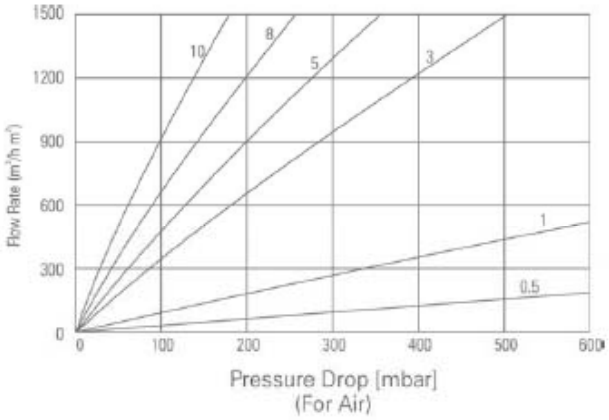
- Sizes : 10", 20", 30", 40" Long (Customized sizes avaliable)
- Micron Rating : 0.2, 0.5, 1, 3,5,10, 20, 25, 50 & More
- Standard Outside Diameter : 64 mm
- Inner Diameter : 28 mm

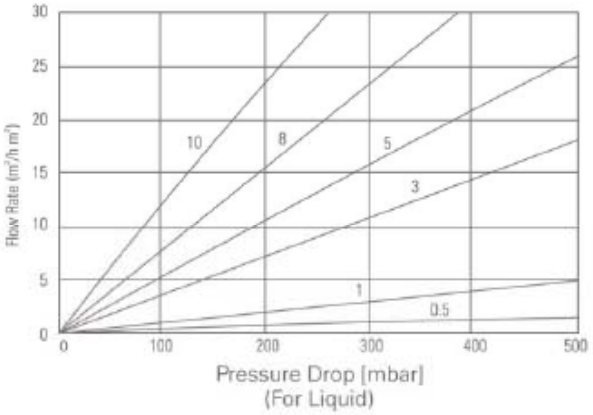
Configuration

- Double Open Type (DOE Type)
- Code 7S (226 O' Ring Design / Bayonet)
- Code 7F (226 O' Ring Design / Flat)
- Code 3S (222 O' Ring Design / Bayonet)
- Code 3F (222 O' Ring Design / Flat)
- 1" NPT / BSP Connection

Applications

- Catalyst Recovery In Petrochemical / Chemical Industries
- Polymer Filtration
- Cross Flow Filtration
- Gas Filtration
- Analytical Devices
- Medical devices
- Oil Filtration
- Aerosol Application
- Gas – Liquid Separation
- Hot Gas Filtration
- Fuel & Hydraulic Oil Filtration
- R.O. Pre Filtration





Oil Adsorbing Filter Cartridge

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

Oil adsorption filter cartridges have been specifically developed and manufactured for the high efficiency removal of dissolved & dispersed oils from water within the gas & oil production industries, marine bilge and ballast water treatment systems, contaminated surface water run off & other industrial process industries. Filter media of this cartridge is material containing modified cellulose. This filter media will remove upto 95% of total hydrocarbons from water in a single pass. Dissolved oil, emulsions & dispersed droplets are adsorbed and retained from water by filter media.

Features & Benefits

- Instantaneous adsorption. Better than activated carbon.
- High flow rates
- Removes dissolved and dispersed oils.
- High efficiency removal of oils
- Low pressure drop
- Media can hold 300 % of its own weight
- No release of removed hydrocarbon
- Typically, over 90% of total hydrocarbons are removed in a single pass through the cartridge with no release once adsorbed.
- Lower outlet levels of hydrocarbons can be achieved by connecting cartridges in series.
- Higher flow rates also can be achieved by connecting cartridges in parallel.

Construction

Oil adsorbing filter cartridges are made by rolling the sheet material onto a central core support. The core & outer surface of filter media rolls are covered with retaining mesh. The complete module is then encapsulated in to end caps suitable for fitting into a variety of housing configurations

Technical Specification

- Standard Sizes : 10", 20", 30", 40" Long
- Micron Rating : 5, 10, 20 Micron
- Standard Outside Diameter: 70 mm, 110 mm
- Inner Diameter : 28 mm

Configuration

- Double Open Type (DOE Type)

Applications

- Gas and Oil facilities
- Leisure/Commercial Shipping Bilge Water
- Surface Water Run off (Truck Stops, Airports)
- Auto Service Stations\gate
- Machine Shops
- Industrial Processes
- Factories and Repair Shops
- Car and Truck Washes

Jumbo Pleated Cartridge For Pool Filtration

Jumbo pleated cartridges are made up of of pleated polyester filter media with Polypropylene core inside and moulded end caps. Filter cartridges are designed for high flow rate and low pressure drop, due to its high filtration area. It is very popular for RO pre filtration & Pool water filtration applications.

Features & Benefits

- Pleated design for higher surface area and contaminant removal.
- Longer filtration runs for lesser change-out and less maintenance
- Low pressure drop
- Designed for general water filtration purposes

Technical Specification

• Filter media	:	Polyester
• Outside Diameter	:	7-3/4"
• Sizes	:	9-5/8", 19-1/2", 30-3/4"
• End cap	:	PU / Plastisol
• Micron Rating	:	1,5,10,20,50 micron
• Temperature Range	:	60°C
• Maximum pressure	:	10PSID

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

Resin Bonded Filter Cartridges

RB (Resin-Bonded) Cartridge is produced from cellulose fibers, which have been intrinsically bonded together by a melamine resin, to create a solid highly durable & porous structure. By treating the fibers in this fashion we can ensure a stronger cartridge that is less likely to collapse than a wound or pleated cartridge.

Features & Benefits

- Free of surfactants, binders and adhesives
- Excellent flow with low pressure drop
- High dirt holding capacity
- Temperature limit 4.4 Deg C to 93.3 Deg C
- Longer service life

Technical Specifications

• Standard Sizes	:	10", 20",30"40"
• Micron Rating	:	1, 5, 10, 25
• Outside Diameter	:	64mm
• Inner Diameter	:	28 mm

Applications

• Food & Beverages	Bottled water, Flavors, Polishing Lines
• Pharmaceuticals	Base product clarifications, Membrane prefilter
• Fine Chemicals	Solvents, Process Streams, Water Purification
• Petrochemicals	Water flood, Completion Fluids, Amines
• Cosmetics	Alcohols, Essential oils, Water lines
• Water Treatment	Membrane Protection, Resin Trap
• Metal Finishing	Plating solution, paints and resins, products Wash

- Edible Oil, Mineral Oil, Paints, Inks, Resins, Gasoline, Alcohols & Photographic solutions

PP Pleated and glass fiber cartridges / High Flowment

PP Pleated and glass fiber cartridges are designed for higher filtration area & high throughput .It has 6 inch/152mm large diameter, and is coreless, single open-ended structure with an inside to outside flow pattern. Due to its large diameter with big filter area, it requires lesser elements for a given flow rate than standard cartridges diameter, due to lesser elements Filter vessels 's size workout smaller, resulting in lower capital Investment and installation costs, as well as reduced operating costs.

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

Features & Benefits

- Easy to dispose due to its unique coreless design
- Minimize overall size of filter housing due to its high throughput
- Absolute rated filtration efficiency

Technical Specifications

Construction

- Filter media : Pleated glass fiber, Pleated depth Polypropylene(PP)
- Support / Drainage: Polypropylene(PP)
- End cap : Glass fiber reinforced Polypropylene
- O-ring seal : EPDM, NBR

- Sizes : 20.69 "(525mm), 40.69"(1033mm), 60.69 "(1541mm)
- Micron Rating : 1, 4.5, 6, 10,20,40,70,100 Microns
- Outside Diameter : 6 inch(152mm)

Operating Conditions

Maximum Operating Temperature

- Pleated glass fiber 121°C
- Pleated PP 82°C

Maximum Differential Pressure

- Pleated glass fiber : 2.4 bar (g) at 120°C
- Pleated PP : 2.4 bar (g) at 80°C

Suggested maximum Flow of water

- 20.69 inch length : 660LPM
- 40.69 inch length : 1300LPM
- 60.69 inch length : 1900LPM

Applications

- Prefiltration of RO,Pretreatment of sea water desalination
- Condensate water filtration,hot water recovery in power generation
- API, solvents,and water filtration in BioPharm market
- The filtration of bottled water, high Fructose,edible oil,soft drinks,and milk
- Paints and coatings,Petrochemical,Refineries
- Microelectronics,film,fiber and resin
- Aviation Turbine Fuel, High sulfur diesel fuel (HSD) etc.

Carbon
Filter Cartridges

Carbon block cartridges are designed for high effective filtration of water for certain VOC'S, pesticides, chlorine, odor & test & sediment reduction down to 5 micron. These cartridges are manufactured entirely from FDA compliance materials. They are suitable for potable water filtration, as well as many industrial, commercial & food service applications.

Its nominal filtration rating makes it excellent for polishing filters of pre filters in applications which require very fine filtration. These cartridges are effective at filtering giardia & cryptosporidium cysts from potable drinking water.

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

Features & Benefits

- High Iodine value
- High flow rate
- High dirt holding capacity
- Greater chlorine removal efficiency
- Good Oil adsorption medium

Type of carbon filters

- Activated coal carbon
- Coconut shell carbon

Applications

- Food & Beverages : Bottled water, Flavors, Polishing Lines
- Pharmaceuticals : Membrane prefilter
- Water Treatment : Membrane Protection, Resin Trap
- Edible Oil : Mineral Oil

Technical Specifications

Construction

- Filter media : Bonded Powdered activated carbon
- End caps : Polypropylene
- Outer wrap : Polypropylene
- Netting : Polypropylene
- Gaskets : Buna N

- Sizes : 10", 20" 30", 40"
- Micron Rating : 5, 10 Micron
- Standard Outside Diameter : 64mm , 116 mm
- Inner Diameter : 28 mm

Filter Bags
Liquid

Filter bags are manufactured for optimum filtration performance. They are made from carefully selected media, according to the specifications of the process industry. Various types of media are used such as needle felt, monofilament and multi-filament. They are effective in removing solid particulate from liquids where large volumes of contamination are present or where highly viscous fluids are required to be filtered. They offer an effective solution to many filtration problems.

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

Operation

Filtration takes place as the liquid flows from the inside of the filter bag to the outside.

Needle felt filter bags utilize the reliable mechanisms of depth filtration and have a high dirt holding capacity. Mesh filter bags utilize the well proven mechanisms of surface filtration and are effective in removing large solid particulate or agglomerates from the liquid flow.

Filter bag replacement is simple. All debris and contamination removed from the liquid is held inside the bag which is lifted from housing after opening the top lid or bowl and disposed of in accordance with environmental regulations.

Features & Benefits

- High performance
- Filtration rating from 1 to 200 Micron
- Good for viscous fluid filtration
- High flow rates
- Low pressure drop
- Broad chemical compatibility
- Positive sealing arrangement with choice of materials
- High dirt holding capacity
- Simple maintenance
- FDA & NSF Compliance

Construction

After cutting, flat stock media is fabricated into the filter bag by double over stitching / ultrasonic fusing, resulting in a strong and secure seam. A choice of materials for the seal/neck ring can be either galvanized, polypropylene or stainless steel.

Technical Specifications

Standard Sizes (Customized sizes are available)

- Ø 4" x 10" Long , Ø 4" x 17" Long
- Ø 7" x 17" Long, Ø 7" x 32" Long

Filtration Rating : 1, 5 , 10 , 20 , 50 , 100 , 200 Micron

Filter Media

- Polypropylene, Polyester , Nylon , HDPE, Nomex , Ryton

Inner Diameter

- Fused (welded) , Stitched Types,
- Single layered , Multi Layered

Fitment Configration

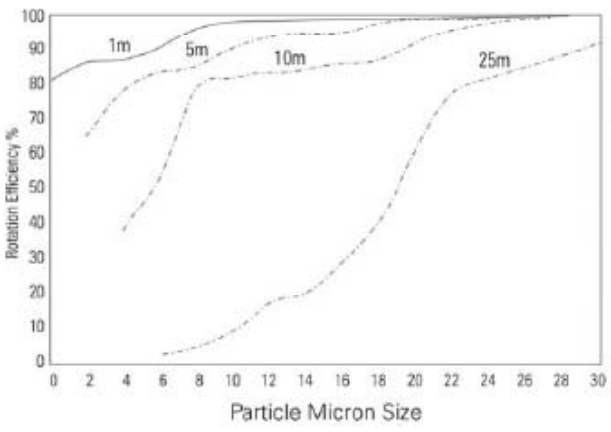
- PP Collar Bag, Steel Ring Bag
- Snap Bond Fit Bag, Rubber collar Bag

Applications

- Paints
- Lacquers
- Inks
- Varnish
- Resins
- Adhesives
- Oils
- Bitumen
- Fats
- Waxes
- Plasticizers
- Primary Pharmaceuticals
- Food Ingredients
- Vegetable Oils
- Cooling and Heating Water
- Irrigation Systems
- Cutting Fluids/Oils
- High Viscosity Fluid

Types of Bags

- Felt Bags - Non Woven Micron Felt Filter Bags- Standard Class
- Mesh Bags - Monofilament Mesh Bags - Standard Class
- Monofilament Mesh Filter Bags - The Bulk Class
- Extended life Felt Bags – Non- woven Micron Felt Bags - Extended Life Class
- Extended life Mesh Bags - Monofilament Mesh Filter Bags
- Extended Service Life Class
- Durable Felt Bags - Non- Woven Micron Felt Bags- Durable Class
- Oil Adsorbing Bags - Oil Adsorbing Filter Bags
- Absolute Bags - Polypropylene absolute Filter Bag
- Pleated Felt Bags - Pleated Micron Felt Filter Bag
- Pleated Absolute Efficiency Bags- Pleated Absolute Efficiency Bags
- Dual Flow Bags - Hi-Efficiency Bi- Directional Flow Filter Bags
- Carbon Bags –Activated Carbon Filter Bags
- Water Absorbent Bags –Water Absorbent Filter Bags
- Antistatic Bags - Polyester Anti static Filter Bags
- Polypropylene pleated Oil Adsorbent Bags



FILTER CONCEPT®
www.filter-concept.com

Air Filtration

Removal of suspended particles from air. This segment offers some special filter elements which are designed to remove moisture and oil from air.

■ Pulse Jet Dust Collection Systems

■ Air Intake Filter Systems

■ Pleated Air Filters

- Pleated Dust Collection Bag
- Pleated Dust Collection Cartridge
- Nomex Media Bags
- PU Moulded Bags
- GT Air Intake Filters

■ Filter Bag-Air

- Non Woven Filter Bag
- Sintered Multilayer Wiremesh
- Pocket Filter

■ Compressor OEM Filter

- Compressor Filter
- Panel Filter
- Hepa Filter

Pulse Jet
Dust Collection System

Filter Concept is manufacturer of Pulse Jet Dust Collection system for various Industries requirement for air quality improvement and enhancing the quality of air released by collecting dust and other impurities from air or gas by removing particulate matter from the air and environment. We are a manufacturer of highly customized units to accurately match your Application requirements with customized ducting solutions along with our dust collectors for your specific dust collection requirements.

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

Construction

Cartridge Housing, Baffle Plate, FILTER Bags, Sequential time controller, Solenoid Valve, Compressed Air Header, Safety Valve, Drain Valve, Pressure Gauge, Acrylic Manometer.

Operation

The dirty or contaminated air enters the dust collector through the inlet and passes through a number of filter cartridges/Bags (before the contaminated Air passes through the Filter Bag/Cartridge; baffle plate works as a protecting layer to control/retain heavy particles, which protects filter bags/cartridges to get in touch with heavy particles and damage caused by it) which retain the dust particles on the exterior surface while allowing clean air to pass through the outlet. As the collector operates, the collected dust begins to form dust cake, which eventually diminishes the porosity of the filter cartridges. As the pressure drop increases the ventilation volume of the collector decreases.

To maintain a moderate pressure drop, the cleaning cycle is employed to provide continuous cleaning of the filter Bags/cartridges. The cleaning system consists of a Sequential time controller, which actuates Solenoid Valve and the Compressed Air Header. These Compressed Air Header momentary burst or pulse of high pressure compressed air through the blow pipe into the filter tube. This Pulse of air creates reverse flow of air, which expands the filter cartridges to remove the collector dust.

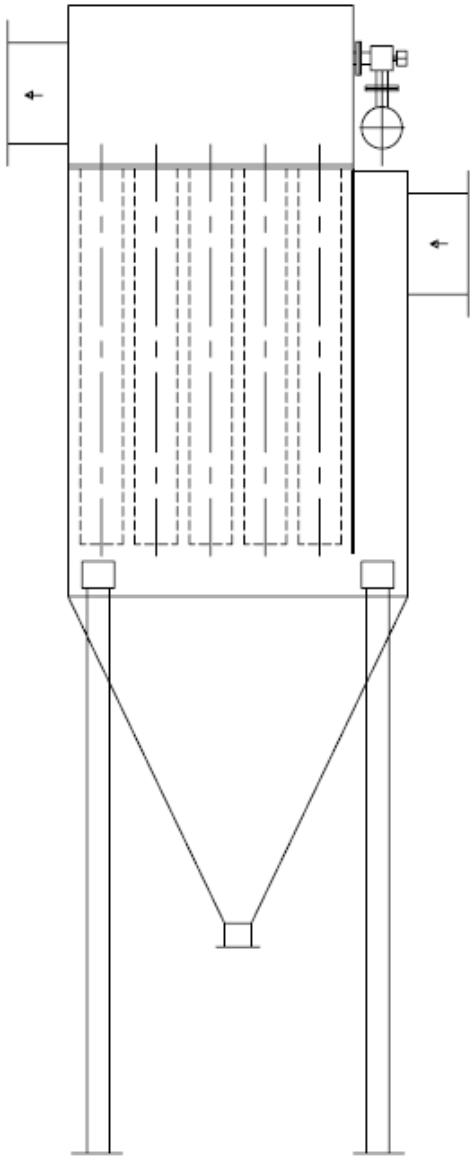
The cleaning procedure occurs on a row-by-row basis therefore only a fraction of total filter air is interrupted for cleaning allowing continuous ventilation. The dust cake when pulsed from the filter cartridges falls directly into the bucket at the bottom where it is removed.

Features & Benefits

- Easy to operate and Handle
- Easy to install & remove
- Low consumption of compressed air (for cleaning)
- High Filtering efficiency even for the finest dusts
- Filter media selection as per application
- Accessories as per client's request

Applications

- Pharmaceuticals
- Cement
- Powder & Coating
- Metals & Minerals
- Chemicals
- Steel & Power



Air Intake Filter System

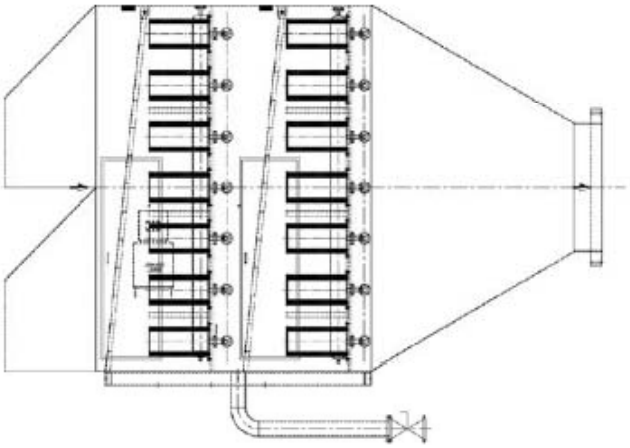
*Accessories Shown on Image are optional & not covered as standard scope of supply

TURBINES, ENGINES, CENTRIFUGAL FANS, BLOWERS, & COMPRESSORS are common equipment for Industrial utility. They intake atmospheric air for its further operations. If moisture, dust, and varieties of solid particulate are present in the intake air, such contaminants can build up on the internal components such as valves, impellers, rotors, and vanes of the compressor, Turbines, Engines, Centrifugal Fans, Blowers . Such build-up can cause premature wear and reduce the efficiency. Therefore, it is recommended to install AIR Intake filters to avoid atmospheric dust particles coming with Air.

Construction

"FILTER CONCEPT" make Air intake filters are designed to meet required level of filtered air for Turbines, Engines, Centrifugal Fans, Blowers, & Compressors. They are constructed of Filter Housing, Air Filter Element and Weather Hood.

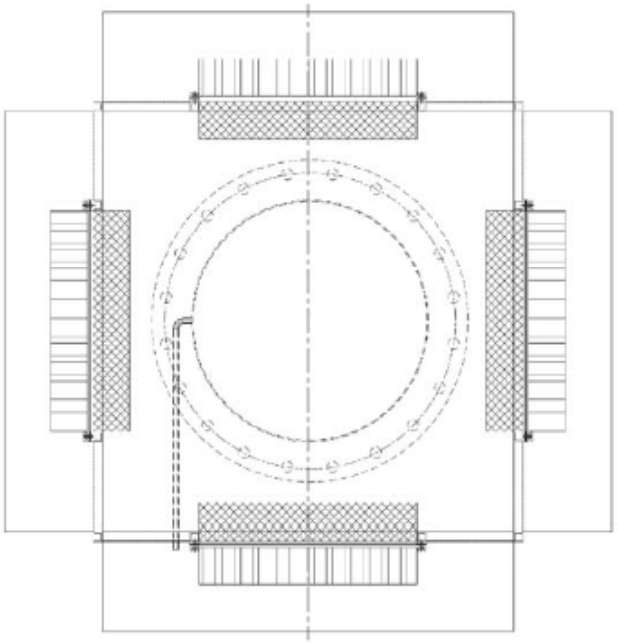
Air Intake Filter housings are constructed of Heavy Gauge Mild Steel sheet channel, Plate and sheet. Filter housings are supply along with flanged outlet connection having drilling of flanged as per ANSI B-16. 5. Internal and external surface of Filter Housing are preliminary coated with red oxide followed with final coat of synthetic enamel RAL 7035.



Air Intake Filter Element

Panel filters are used in industries to retain particles ranging from 1 micron to 50 micron. These filters are basically air intake filters, which is working with negative pressure of systems.

Primary (Panel) filters are used for coarse filtration for removal of particles in range of 1 to 50 microns. Primary filters retain coarse particles to avoid further loading on secondary filters & enhance the life of secondary filter. Primary filters are cleanable in nature to obtain good shelf life.



TOP VIEW

Features & Benefits

- Low pressure drop due to pleated configuration
- Easy to install
- No bypassing
- Washable & reusable
- High dirt holding capacity
- Good mechanical strength
- Retrofit to any standard make

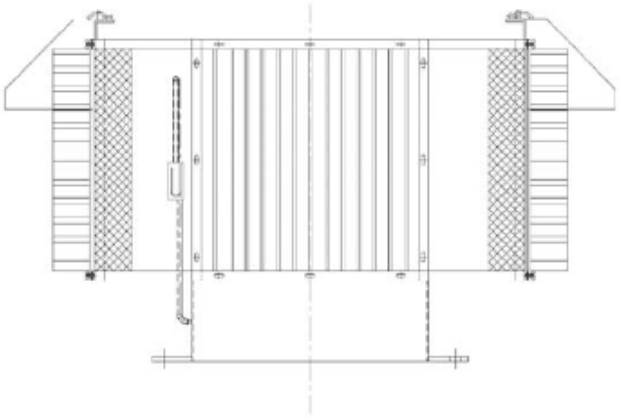
Technical Specification

Configuration

- Flange type
- Box type

Filter media

- HDPE Media
- Synthetic Fiber Media
- Spun bonded polyester media



ELEVATION

Applications

- Turbines
- Engines
- Centrifugal Fans
- Blowers

Pleated dust collection bags are now widely used in the field of dust collection system. These are made up of 100 % Spun Bonded polyester media with different coatings on it, as per requirement of applications. This spun bonded media are pleated in different pleated depths & heights to accommodate desired filtration area. Spun bonded filter media offers surface filtration, due to which pleated bags offer very high throughput & lower pressure drop across the filter compared to any conventional tube type filter bags. Pleated configuration offers almost 3 – 4 times higher filtration area compared to conventional bags.

Construction

Pleated spun bonded polyester filter media is placed in a cylindrical configuration with support cage of Galvanised / stainless steel / Polypropylene & encapsulated with EPDM / Natural rubber / Polyurethane or metal end caps to form a pleated dust collection bag. Longitudinal joints of pleated bags are ultrasonically fused for leak proof & very stable design. The end caps are configured to mount as clean side or dirt side fitment. In case of metal caps these bags are supported with soft sponge rubber or snap band cuff sealing to ensure positive sealing of filter while fitment.

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

Features & Benefits

- Filter area 3 to 4 times Larger than traditional filter bag
- Open Pleat Spacing
- Low consumption of compressed air (for cleaning)
- High efficiency due to surface filtration
- Reduction in downtime & maintenance
- Easy to install & remove
- Top and Bottom in EPDM, Natural Rubber,polyurethane or Metal end caps
- Leak proof design
- Very stable; do not break or fall through sheet
- Cages & venture are integral part of bags,hence no cages or venture required

Technical Specification

Filter Media

- Spun Bonded Polyester Media
- Pleatable PPS Media
- Pleatable Nomex Media

Area weight of filter media

- 170 gms/m2
- 200 gms/m2
- 260 gms/m2

Coating

- PTFE coating for oil & moisture removal
- Aluminum coating for antistatic application
- Stainless steel coating for antistatic application
- Fire retardant coating
- PTFE lamination for very stick dust

Sizes

- Ø 160 mm x 500 mm Long
- Ø 160 mm x 1000 mm Long
- Ø 160 mm x 1400 mm Long
- Ø 160 mm x 2000 mm Long

- Filtration area : 0.96 m2 to 5.5 m2

Applications

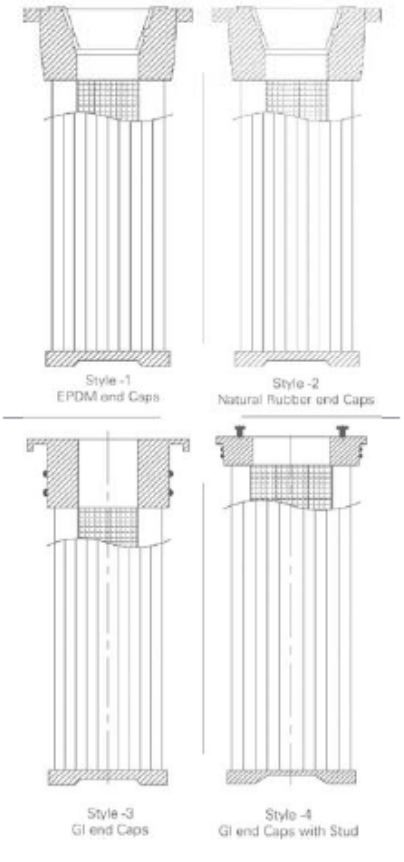
- Pharmaceuticals
- Steel & Power
- Powder coating
- Shot Blasting
- Cement
- Chemicals
- Metals & Minerals
- Paints & Pigments
- Pneumatic Conveying
- Spray Dryer

PLEATED NOMEX BAGS

Pleated nomex bags are the latest Innovation by Filter Concept for high Temp. upto 220°C.

PU MOULDED BAGS

Filter Concept is keen to deliver highest level of quality product to their customer & with Endeavour to that FCPL has introduced polyurethane pleated bags to cater demanding application of air pollution control segment. Moulded design of pleated bag is suitable for retrofit to various reputed name in similar segment.



* Nomex® is a registered trademark of Dupont

Pleated Dust Collection Cartridge

Pleated dust collection cartridges are made up of 100 % spun bonded polyester media, like pleated dust collection bags media with different coatings on it, as per the requirement of applications. Construction wise Pleated dust collection bags & cartridges are one & the same, they are differentiated just for variation of filtration area. Dust collectors manufacturers / OEMs can replace conventional tube bags with pleated dust collection bags & cartridges with minor changes in the present equipment design. This polyester media is made up of high tenacity filament yarn without using any binding agent. Thus hard finished material is very stable against hot gas attack & structurally durable. This unique & hard finished material provides features of good pleat ability, high durability, and unique structure of very fine filament yarn which offer high performance in filtration. Thermally tight bonded media provide washability, excellent pleatability, stable structure, fine dust release & good resistance of particle penetration in to the media. This filter media is pleated in different pleated depths & heights to accommodate desired filtration area.

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

Construction

Pleated spun bonded polyester filter media is placed in a cylindrical configuration with support of metal core & encapsulated with metal end caps to form a pleated dust collection cartridge. The end caps are configured to mount as clean side or dirt side fitment. In case of metal caps these cartridges are supported with soft sponge rubber sealing to ensure positive sealing of filter while fitment.

Features & Benefits

- High filtration area up to 20 m2
- Universal Fixing arrangements
- Open Pleat Spacing
- Low Consumption Of Compressed Air (For Cleaning)
- High Efficiency Due To Surface Filtration
- Very High Air To cloth Ratio
- Very high filtration efficiency

Technical Specifications

Filter Media : Spun Bonded Polyester Media

Area Weight of filter media

- 170 gms/m2
- 200 gms/m2
- 260 gms/m2

Coating

- PTFE coating for oil & moisture removal
- Aluminum coating for antistatic application
- Stainless steel coating for antistatic application
- Fire retardant coating
- PTFE lamination for very stick dust

Sizes

Sr. No.	Diameter Of element	Length Of filter Element
1	150 mm	500 mm
2	150 mm	1000 mm
3	150 mm	1400 mm
4	150 mm	2000 mm
5	225 mm	500 mm
6	225 mm	1000 mm
7	225 mm	1400 mm
8	225 mm	2000 mm
9	325 mm	300 mm
10	325 mm	500 mm
11	325 mm	606 mm
12	325 mm	1000 mm
13	325 mm	1400 mm

Fitment Configuration

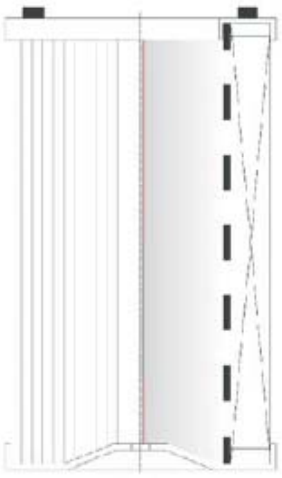
- Clean Side Fitment (Model: 2 & 3)
- Dirt Side Fitment (Model : 1)

Filtration Area

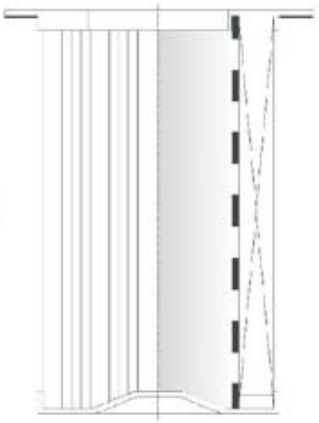
- 0.96 m2 to 20.0 m2

Applications

- Pharmaceuticals
- Steel & Power
- Powder coating
- Shot Blasting
- Cement
- Chemicals
- Metals & Minerals
- Paints & Pigments



Model-1



Model-2

Model-3

* Nomex® is a registered trademark of Dupont

Gas Turbine Air Intake Filter Systems

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

Gas Turbine Air Intake Filter cartridges are modern and reliable for air intake applications. They ensure high efficient filtration of dust and other contaminants even in the most polluted environments. Normally these are made of mixture of polyester & cellulose and some time 100% polyester media. These media have much better pleat ability & dimensional stability. Pleated filter media offer high filtration efficiency, very fine retention level, easy clean ability & aesthetically good product than other normal filter media.

Features & Benefits

- Easy to clean
- All polyester materials are washable
- High flow efficiency
- High Air to cloth ratio
- Large spacing
- Cleanable without damaging filter media
- Retrofit for most standard makes

Technical Specification

Filter media

- Mixture of Cellulose & Polyester Media
- 100 % spun bonded polyester

Configuration

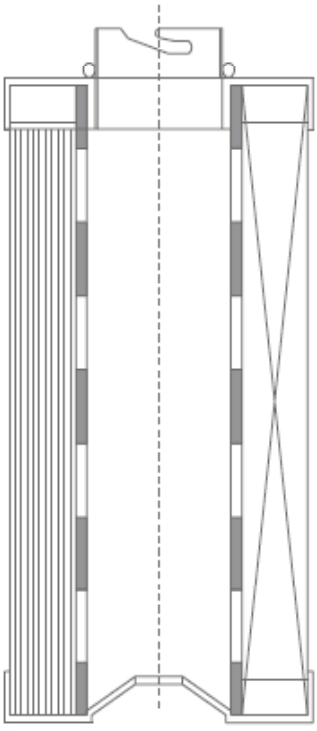
- Cylindrical
- Conical

Applications

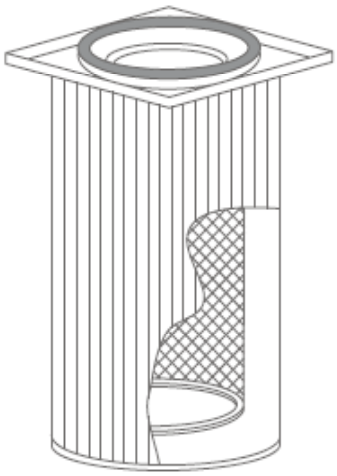
- All types of air intake applications

Sizes

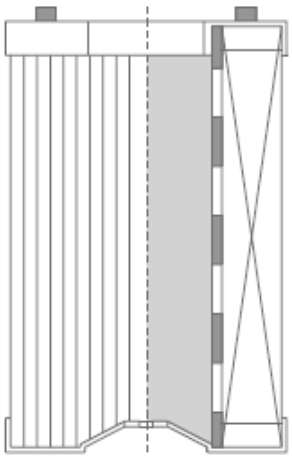
Sr. No.	Diameter Of element	Length Of filter Element
1	325 mm	647 mm
2	325 mm	660 mm
3	325 mm	673 mm
4	445 mm	660 mm



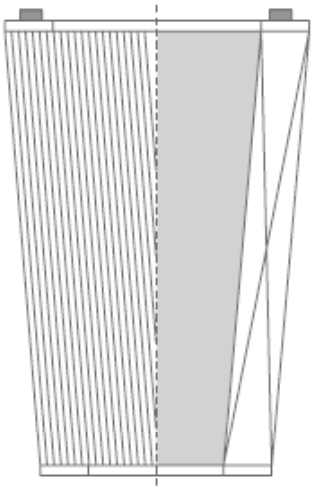
325 X 673 mm, Style 3



325 X 647 mm, Style 1



325 X 660 mm, Style 2



445 X 660 mm, Style 4

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Dust Collection
Non Woven Bags

Filter bags are manufactured for achieving optimum filtration performance. They are made from carefully selected media. Various types of media are used such as needle felt, monofilament and multi-filament. They are effective in reducing dust emission levels as per requirement of industries. These bags are placed in dust collector with supporting filter cages. Contaminated air takes path of outside to inside filtration. All solid contaminants get deposited at outer surface & clean air / gas passes through top chamber. Particles retained at the outer surface of media get collected at the bottom of dust collector with the help of shaking mechanism or reverse pulse jetting mechanism.

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

Features & Benefits

- Highly efficient filtration level
- Depth type filtration
- Wide range of chemically compatible media
- High temperature resistance
- High flow efficiency
- High air to cloth ratio
- Various coatings are available

Technical Specification

Filter Media

- Non woven needle felt polyester
- Non woven needle felt polypropylene
- Aramide / Nomex / Conex
- Homopolymer Polyacrylocnitrile
- Polyacrylic
- PTFE
- P84
- PPS / Ryton

Available Coating & Treatment

- Silicone coating
- Antistatic treatment with carbon fiber
- Antistatic treatment with copper wire
- Antistatic treatment with stainless steel fiber
- Water & oil repellent
- PTFE coating
- PTFE laminated

Sizes

- Customized sizes are available in cylindrical tube bags & pocket type bags

Configurations

- Snap band type
- Flange collar type
- Rubber cord type
- Customized

Applications

- Pharmaceuticals
- Steel & Power
- Powder coating
- Shot Blasting
- Cement
- Chemicals
- Metals & Minerals
- Paints & Pigments

Pocket Filter

Pocket filter are made up of non woven synthetic fiber media to ensure retention of solid particles up to the stipulated micron rating. These are covered with supporting layer of spun bonded media to avoid any type of particles or fiber migration, even after high pressure build up. Media are sealed with thermal bonding or stitching as per requirement.

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

Pocket filters are filters used in HVAC applications to remove dust from ambient air. They are commonly used as final filters in commercial applications or as prefilters for HEPA filters in hospitals & Pharmaceutical Industry.

Features & Benefits

- Pocket filters offer high air volume
- Low pressure drop
- High dirt holding capacity
- Good mechanical strength
- Made of selective fibrous material
- Easy to install
- Retrofit to any standard make

Technical Specifications

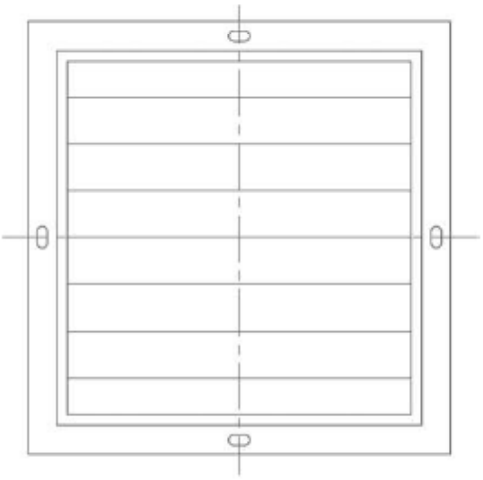
Sizes

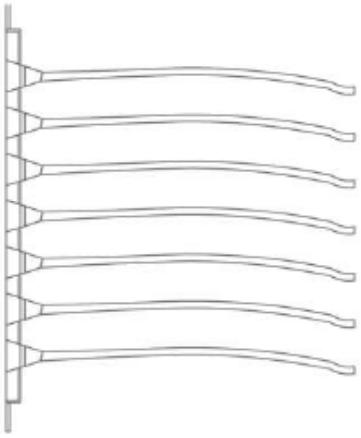
- Ø 590 x 590 x 590 mm
- Ø 610 x 610 x 760 mm
- Customized Sizes Are Available

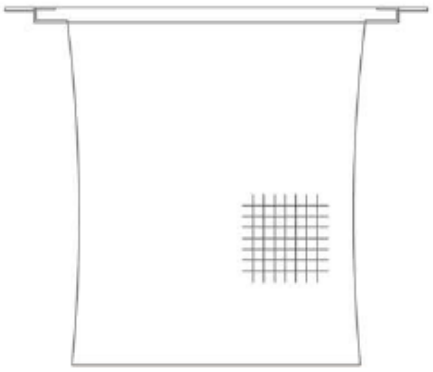
Filtration Rating : 1, 5, 10, 25 micron

Applications

- Chemicals
- Pharmaceuticals
- Gas turbine compressors
- Food and Beverages
- Fertilizer
- Spare painting booths







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Sintered Multilayer Wiremesh

Sintered multilayer wire mesh bags are designed for high temp Application of Industries. It can be used for high temperature up to 480°C. It has one standard combination of 5 Layers sintered wire mesh made from stainless steel which is brought together through vacuum sinter, compression and rolling and made into a kind of porous material.

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

Features & Benefits

- Large filtration area, from 1 Micron to 100 Micron for absolute filtration
- Steady filter rating, as it has two protective layers and sinter arts, the mesh of the filter layer is not easy to change
- High mechanical strength & excellent resistance to pressure due to fourth and fifth layers reinforced
- Easy to wash, specially back washing
- Easy to wash, specially back washing
- Heat resistance , Heat resistance up to 480°C
- Corrosion resistance
- Tractability, suit to cut, punching, wrap

Applications

Catalyst Recovery In Petrochemical / Chemical Industries

- Polymer Filtration
- Cross Flow Filtration
- Gas Filtration
- Analytical Devices
- Medical devices
- Oil Filtration
- Aerosol Application
- Gas – Liquid Separation
- Hot Gas Filtration
- Fuel & Hydraulic Oil Filtration
- R.O. Pre Filtration

Panel Filter

Panel filters are used in industries to retain particles ranging from 1 micron to 50 micron. These filters are basically air intake filters, which is working with negative pressure of systems. These filters are further classified as.

- Primary Filters
- Secondary Filters

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

PRIMARY PANEL FILTER

Primary filters are used for coarse filtration for removal of particles in range of 10 to 50 microns. Primary filters retain coarse particles to avoid further loading on secondary filters & enhance the life of secondary filter. Primary filters are cleanable in nature to obtain good shelf life.

Features

- Low pressure drop due to pleated configuration
- Easy to install
- No bypassing
- Washable & reusable
- High dirt holding capacity
- Good mechanical strength
- Retrofit to any standard make

Technical Specifications

- Configuration : Flange type & Box type

Sizes available

- 610 mm x 610 mm x 50 mm / 100 mm / 150 mm / 300 mm
- 545 mm x 545 mm x 50 mm / 100 mm / 150 mm / 300 mm
- Customized sizes are available on request

Filtration Rating

- 10, 15 , 20, 25 micron & more

Filtration efficiency

- 80 – 90 %

Frame Material

- SS 304 / GI (Galvanized Steel) / Aluminum Powder coated / CRC powder coated or Zinc coated

Filter media

- HDPE Media / Synthetic Fiber Media / Spun bonded polyester media

PRIMARY PANEL FILTER

Secondary filters are used for fine filtration for removal of particles in the range of 1 to 10 microns. Secondary filters are made from selective fiber media for better efficiency.

Features

- Low pressure drop due to pleated configuration
- Easy to install
- No bypassing
- Washable & reusable
- High dirt holding capacity
- Good mechanical strength
- Retrofit to any standard make

Technical Specifications

Configuration : Flange type & Box type

Sizes available

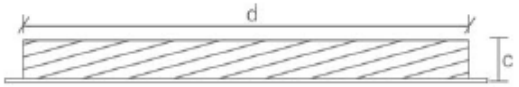
- 610 mm x 610 mm x 50 mm / 100 mm / 150 mm / 300 mm
- 545 mm x 545 mm x 50 mm / 100 mm / 150 mm / 300 mm
- Customized sizes are available on request

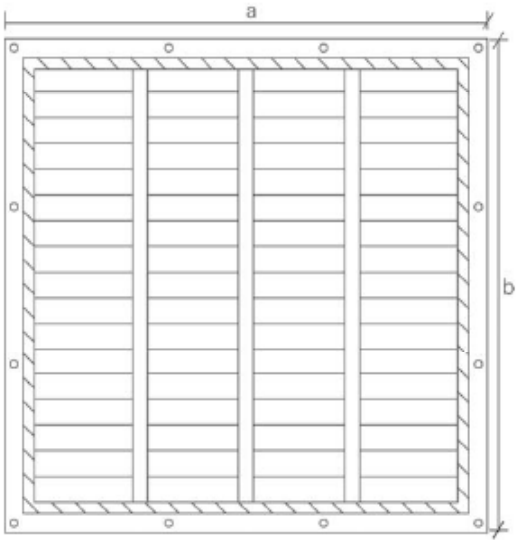
- Filtration Rating : 1, 5 , 10 micron & more

- Filtration efficiency : 80 – 90 %

- Frame Material : SS 304 / GI (Galvanized Steel) / Aluminum Powder coated / CRC powder coated or Zinc coated

- Filter media : HDPE Media / Synthetic Fiber Media / Spun bonded polyester media





Hepa Filter

Hepa filters are designed to meet requirement of very fine filtration up to 0.3 micron at high efficiency of 99.99 %. We have added a new feature in conventional hepa filters by using spun bonded polyester media which is cleanable in nature. These are available with different coatings like PTFE coating, PTFE lamination & more for better dust releasing. Due to hydrophobic & oleo phobic treatment on media, it does not allow any moisture & oil contents to pass through.

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

Features & benefits

- Low pressure drop due to pleated configuration
- Easy to install
- No bypassing
- High dirt holding capacity
- High filtration efficiency
- Good mechanical strength
- Retrofit to any standard make

Technical Specifications

- Configuration
- Flange type & Box type

Sizes available

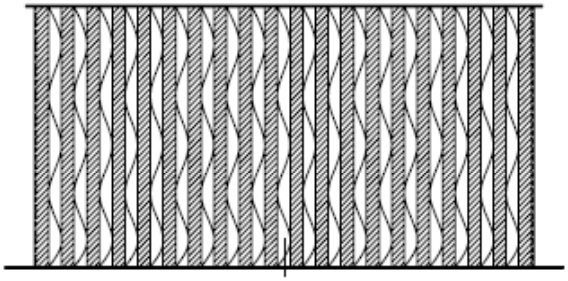
- 610 mm x 610 mm x 50 mm / 100 mm / 150 mm / 300 mm
- 545 mm x 545 mm x 50 mm / 100 mm / 150 mm / 300 mm
- 545 mm x 545 mm x 50 mm / 100 mm / 150 mm / 300 mm
- Customized sizes are available on request

- Filtration Rating : 0.3 micron & more

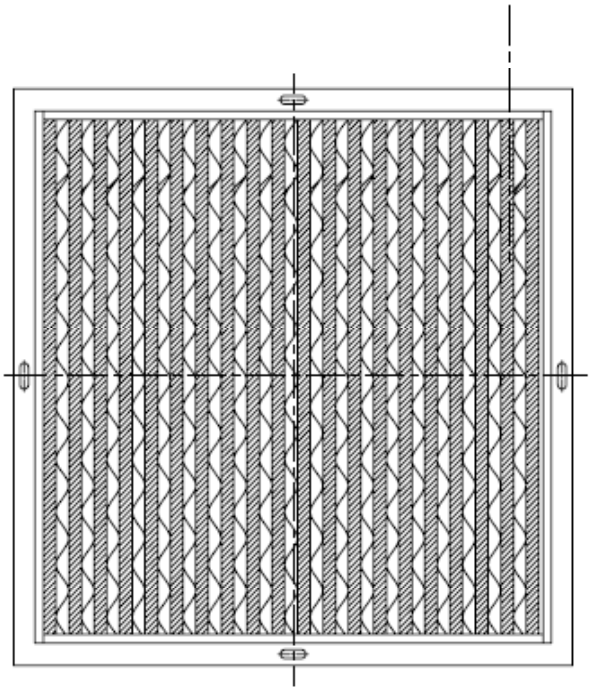
- Filtration efficiency : 90 – 99.9 %

- Frame Material : SS 304 / GI (Galvanized Steel) / Aluminum Powder coated / CRC powder coated or Zinc coated

- Filter media : Glass Fiber media / Spun bonded polyester media



Top View



Front View

FILTER CONCEPT®
www.filter-concept.com

Hydraulic & Lube Oil Filtration

Hydraulic & Lube oil filtration degment deals with removal of suspended particles from oil. It deals with high pressure filtration requirement. We, Filter Concept Pvt. Ltd. offers wide range of products for hydraulic and lube oil filtration process.

- **Hydraulic & Lube Oil Filters**

Hydraulic & Lube Oil Filter

Hydraulic & Lube Oil Filtration

Hydraulic filters are used in demanding applications of filtration of oil at any operating conditions. Irrespective of operating conditions like high pressure, low pressure, highly viscous oil, or highly contaminated oil, we have best adequate solution for these applications. We have filters which can remove moisture contents from oil.

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

Hydraulic filters are Subcategorized as

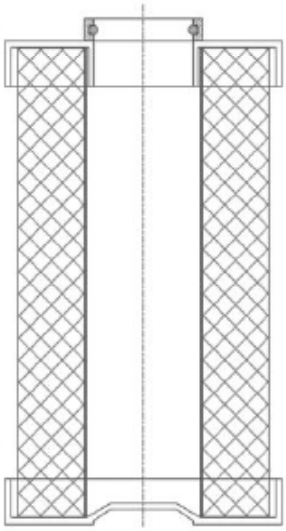
- Suction strainer
- Return line filter
- High pressure filter
- Medium pressure filter
- Low pressure filter
- Offline & portable mobile filter unit
- Replacement filter elements
- Moisture removal filter

Filter Media

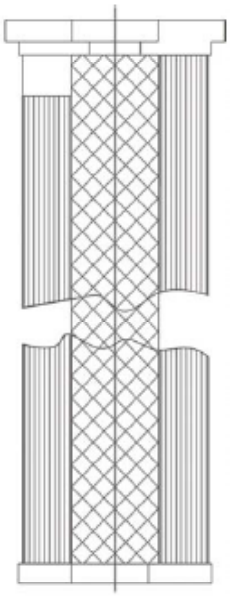
- Borosilicate glass fiber media
- Glass fiber with lamination
- Resin impregnated paper media
- SS wire mesh
- Synthetic fiber media
- Sintered metal Fiber Media

Applications

- Aeronautics
- Heavy Earth Moving
- Hydraulic
- Ceramic
- Power Plant
- Refineries



Hydraulic Filter



Lube Oil Filter

FILTER CONCEPT®
www.filter-concept.com

Compressed Air Filtration

Compressed air filtration segment deals with removal of suspended particles from compressed air. It offers filtration from 0.01 micron to 100 microns. This segment offers some special filter elements which are designed to remove moisture and oil from compressed air.

- **Compressed Air Filters**

Compressed Air Filter

Compressed air is a very common source of energy. For effective utilization of compressed air, it has to be clean. Filter Concept offers a range of compressed air filters for removal of dirt, dust, rust, condensates, moisture contents, oil impurities & exhaust fumes. Filtered compressed air results into low down time & reduces the production loss. These filtration systems are designed based on their flow requirement, line size, working pressure, working temperature & level of filtration rating. Filter housings can be made of SS 316, SS 304, carbon steel or aluminum. Filter elements are made of varieties of selective fiber media to ensure desired filtration level.

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

Operation

Unfiltered compressed air enters in to filtration systems with positive pressure & passes through selective filter media to remove dirt, dust, and moisture & oil contaminants.

These filters are further classified in three different categories

- Particle removal filter (for removal of dirt, dust, rust & other metal particles up to 1 micron)
- High efficiency filter (for removal of oil & moisture contents and fine particles up to 0.01 micron)
- Carbon filter (for removal of oil vapour, test & odour)

Features & Benefits

- High flow rate
- Low pressure drop due to pleated configuration
- High efficiency due to surface filtration
- Reduction in downtime & maintenance
- Easy to install & remove
- Choice of filter media & filter housings

Technical Specifications

Capacity : Up to 95,000 NM3/hr & more

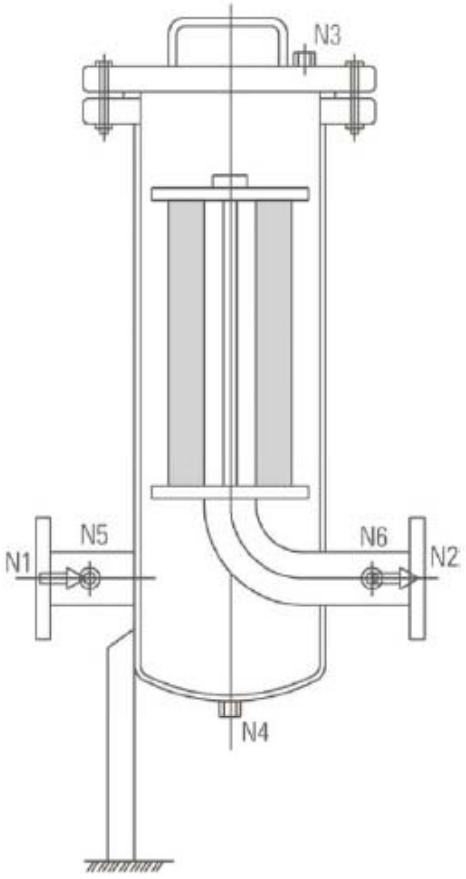
MOC of System : SS 316, SS 304 , MS/CS , Aluminum

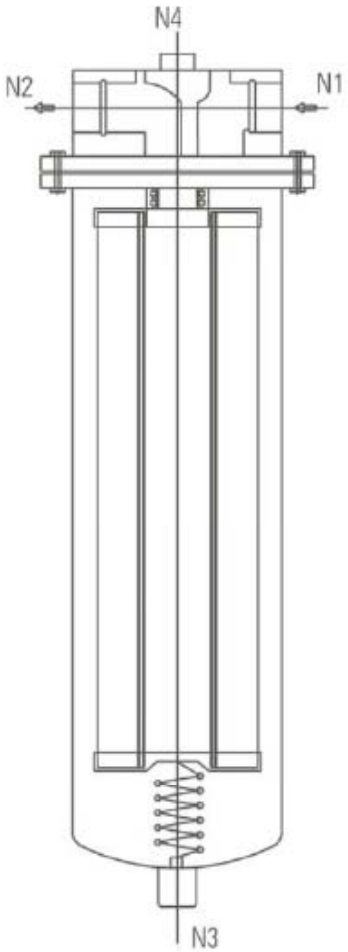
MOC of Element

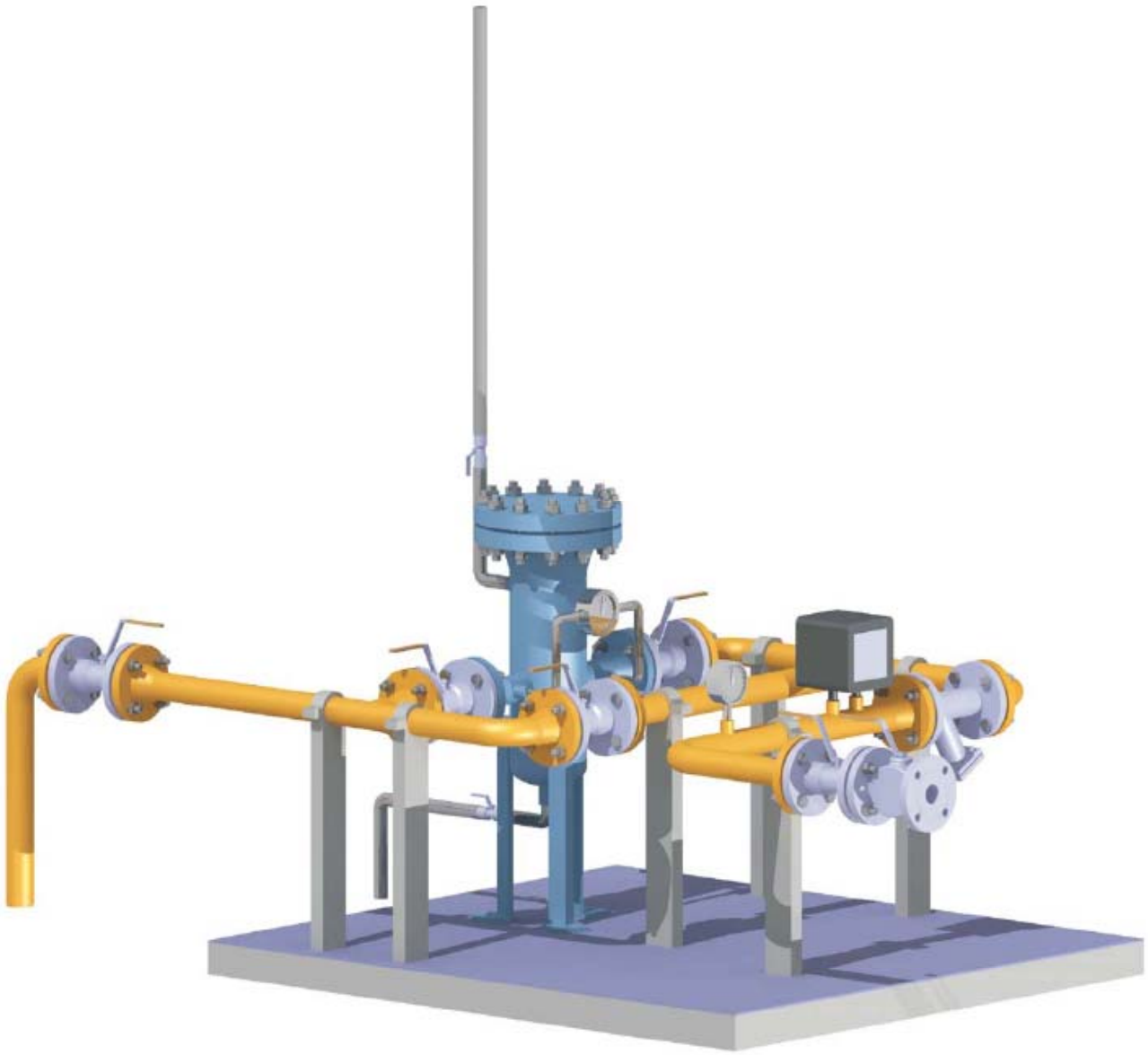
- SS 316L sintered media
- Sintered ceramic
- Sintered polyethylene
- Activated carbon
- Synthetic fiber media
- Borosilicate glass fiber

Applications

- Pharmaceuticals
- Chemicals
- Food & Beverages
- Steel & Power
- Cement
- Breathing Application







FILTER CONCEPT®
www.filter-concept.com

Gas Filtration

Gas Filtration segment deals with removal of suspended particles from gas. It offers filtration from 0.01micron to 100 microns. This segment offers some special filter elements which are designed to remove moisture and oil from gas.

Gas Filter

- Gas Filter Systems
- Coalescers
- Seperator/Knock-Out Drum
- Metering Skid
- Gas Service Regulator Module

Gas Filter Consumables

- Particle Removal Filter
- Coalescing Filter Element
- Sintered Multilayer Wiremesh

Gas Filter

We offer a range of gas filtration systems for removal of dirt, dust, rust, condensates, moisture contents, oil impurities & exhaust fumes. Filtered gas results low down time & reduces the production loss. These filtration systems are designed depending on their flow requirement, line size, working pressure, working temperature & level of filtration rating. Filter housings can be made of SS 316, SS 304, carbon Steel or aluminum. Filter elements are made of varieties of selective fiber media to achieve desired filtration level.

We offer replacement of existing vessels and new design vessels. These are made as per the process requirement to offer high filtration area, lower pressure drop & extended service life of filter element. These filters are available in customized design & capacity to meet particular process parameters.

Filter housings for these filters are available in standard design codes like ASME SEC VIII DIV I & other pressure vessel design code stamped upon special request.

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

These filters are further classified in three different categories

- Particle removal filter (For removal of dirt, dust, rust & other metal particles up to 1 micron)
- High efficiency filter (For removal of oil & moisture contents and fine particles up to 0.01 micron)
- Carbon filter (For removal of oil vapour, test & odour)

Features & Benefits

- High flow rate
- Low pressure drop due to pleated configuration
- High efficiency due to surface filtration
- Reduction in downtime & maintenance
- Easy to install & remove
- Choice of filter media & filter housings

Technical Specifications

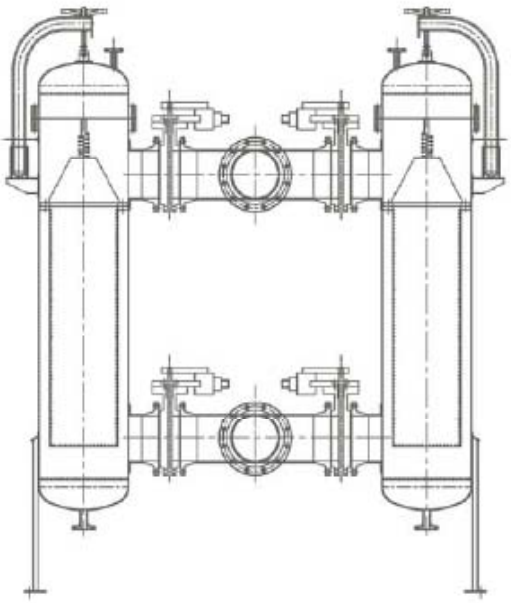
MOC of Housing : SS 316, SS 304, MS/CS, Alloy Metals

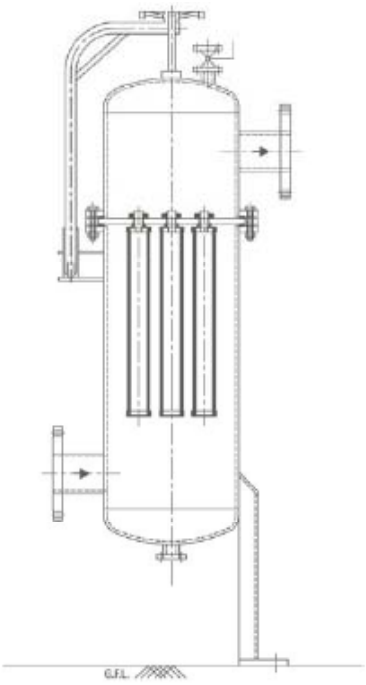
MOC of Element

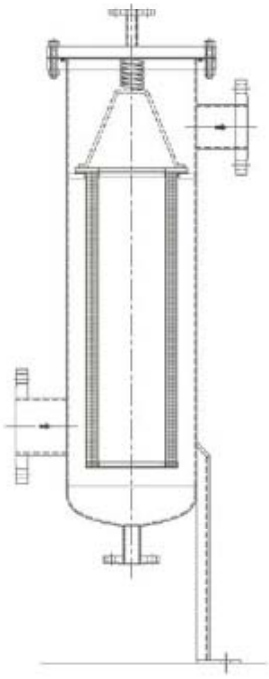
- SS 316L sintered media
- Stainless steel wiremesh
- Sintered ceramic
- Sintered polyethylene
- Activated carbon
- Synthetic fiber media
- Borosilicate glass fiber

Applications

- Natural gas filtration
- CNG & LPG Gas filtration
- Oxygen Gas
- Nitrogen Gas
- H2S Gas

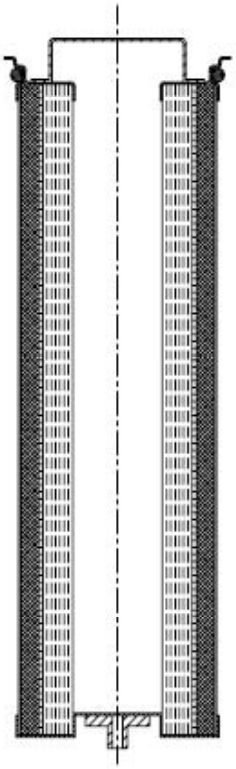






Coalescer

Gas Filtration



Filter-Concept is keen to deliver highest level of quality product to their customer & with endevour to that FCPL has introduced Coalescer to cater demanding application of gas filtration segment.

Features & Benefits

- Low pressure drop
- High dirt holding capacity
- Easy to clean
- Positive sealing arrangement to avoid bypassing
- High temperature & high pressure design are available
- Easy to install
- No bypassing
- High filtration efficiency
- Good mechanical strength
- Retrofit to any standard make

Technical Specification

Media

- Glass Fiber media / Synthetic Fiber media with water & oil repellant

Filtration efficiency : 90 – 99.9 %

Configuration : Pleated / Wrap Round

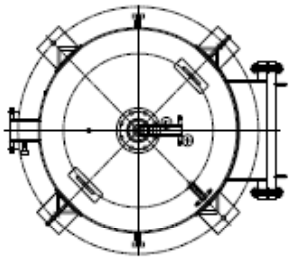
Application

- Natural gas filtration
- CNG & LPG Gas filtration
- Oxygen Gas
- Nitrogen Gas
- H2S Gas
- Oil Filtration

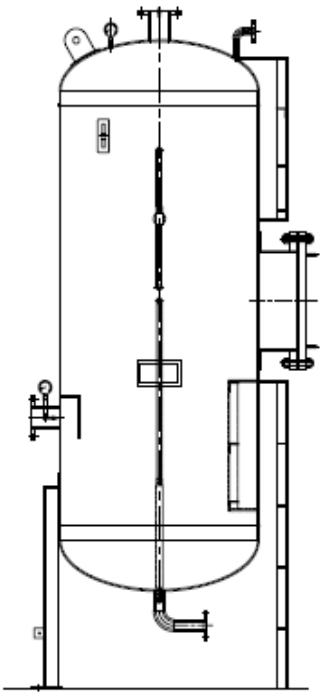
* Accessories Shown on Image are optional & not covered as standard scope of supply

Seperator / Knock-Out Drum

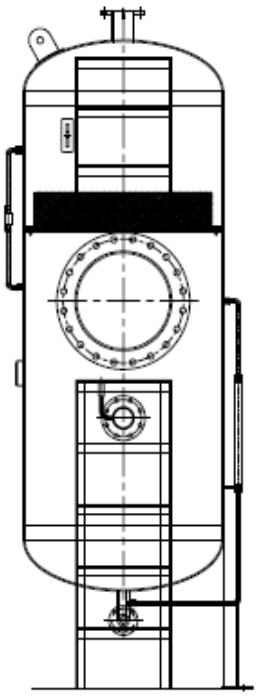
Gas Filtration



TOP VIEW



ELEVATION



SIDE VIEW

Seperator / Knock-Out Drum Used for separate the liquid & vapors in any application. The vessels are design tangential inlet which allows to "scrub out" the vapors/Liquid in gas application The liquid to collect bottom of the vessels while the gas flows at the upstream. Demister pads are provided to increase the filtration efficiency. We also provide level indicator to indicate the level of liquid present in the vessel.

Features & Benefits

- High flow rate
- High efficiency due to tangential design & provision of demister pad
- Reduction in downtime & maintenance
- Easy to install & remove
- Easy to install
- ASME code stamp available

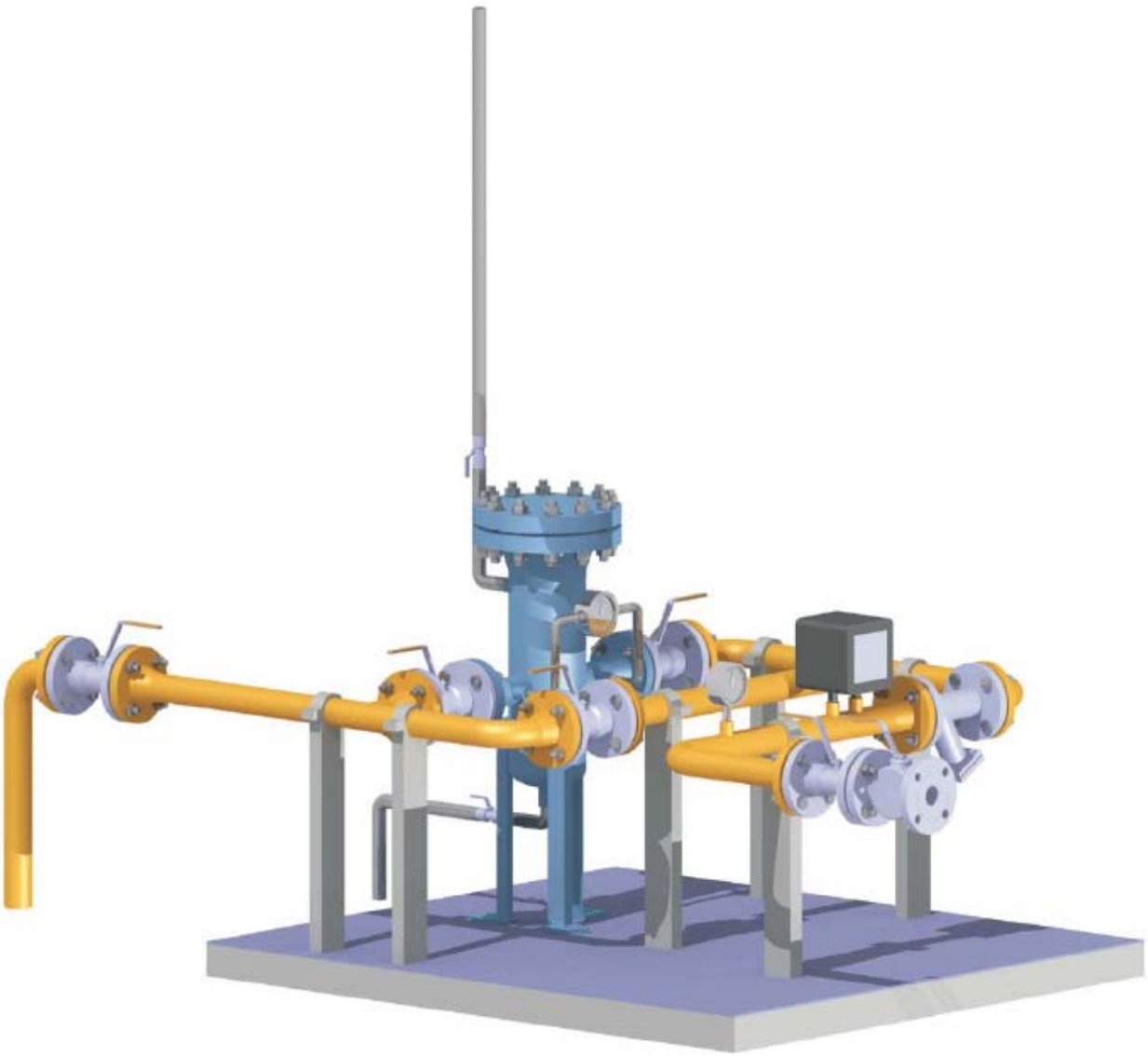
Applications

- Natural gas filtration
- CNG & LPG Gas filtration
- Oxygen Gas
- Nitrogen Gas
- H2S Gas

Material of Construction

- SS 316, SS 304, MS/CS,

Metering Skid Filtration Systems



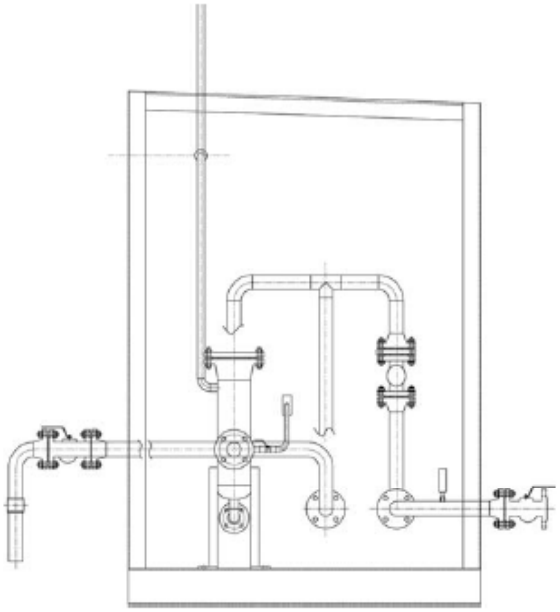
Filter-Concept is keen to deliver highest level of quality product to their customer & with endevour to that FCPL has introduced Metering Skid Filter Systems to cater demanding application of oil & Gas Industry. We offers an array of filters vessels that are compact and immediate turnkey solutions for many filtration needs.

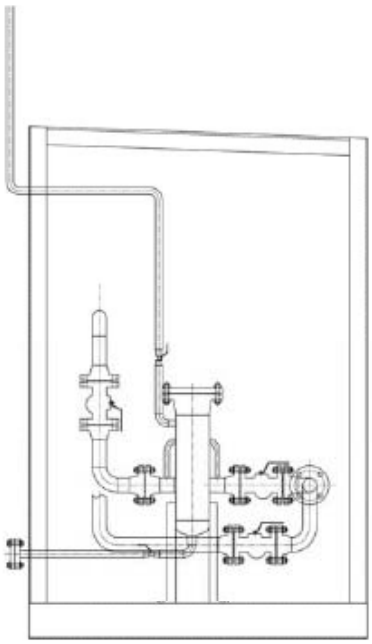
* Accessories Shown on Image are optional & not covered as standard scope of supply

We offer a range of gas filtration systems for removal of dirt, dust, rust, condensates, moisture contents, oil impurities & exhaust fumes. Filtered gas results low down time & reduces the production loss. These filtration systems are designed depending on their flow requirement, line size, working pressure, working temperature & level of filtration rating. Filter housings can be made of SS 316, SS 304, carbon Steel or aluminum. Filter elements are made of varieties of selective fiber media to achieve desired filtration level.

We offer replacement of existing vessels and new design vessels. These are made as per the process requirement to offer high filtration area, lower pressure drop & extended service life of filter element. These filters are available in customized design & capacity to meet particular process parameters.

Filter housings for these filters are available in standard design codes like ASME SEC VIII DIV I & other pressure vessel design code stamped upon special request.



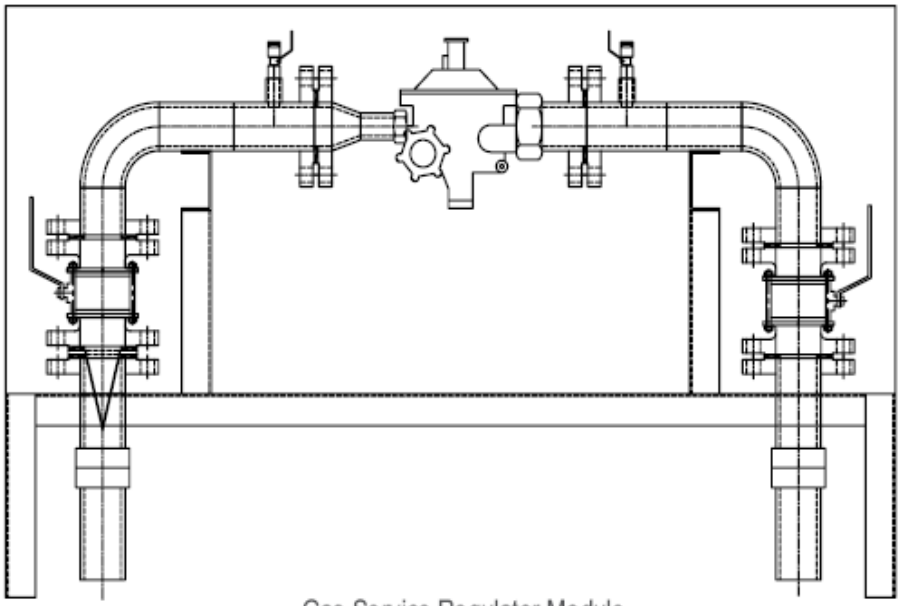


Features & Benefits

- High flow rate
- Low pressure drop due to pleated configuration
- High efficiency due to surface filtration
- Reduction in downtime & maintenance
- Easy to install & remove
- Choice of filter media & filter housings

Applications

- Natural gas filtration
- CNG & LPG Gas filtration
- Oxygen Gas
- Nitrogen Gas
- H2S Gas



Gas Service Regulator Module

Product Code Abbreviation

FCIMCF- S1-M-203-1-D

FCI	Description	Style	Material	Size	Configuration	Design
	SCF - Single Cartrdige Filter Housing	S1 - Style -1	A-SS 304	203 - 20" x 3 Nos. Of Ø 2.5"	1 - DOE	Duplex
	MCF - Multiple Cartrdige Filter Housing	S2 - Style -2	B-SS 316	204 - 20" x 4 Nos. Of Ø 2.5"	2 - SOE	Simplex
		S3 - Style -3	C-SS 316 L	304 - 30" x 4 Nos. Of Ø 2.5"		
			D-CARBON STEEL	404 - 40" x 4 Nos. Of Ø 2.5"		
			E-CSRL			
			F-ASTM A 106			
			G-ASTM A 517			
			H-ASTM A 516			

FCIMBG -S1-M-732-2-D

FCI	Description	Style	Material	Size		Design
	SBG - Single Bag Filter Housing	S1 - Style -1	A-SS 304	7" x 32" x 2 Nos		Duplex
	MBG - Multiple Bag Filter Housing	S2 - Style -2	B-SS 316	7" x 32" x 3 Nos		Simplex
		S3 - Style -3	C-SS 316 L	7" x 32" x 4 Nos		
			D-CARBON STEEL	7" x 32" x 5 Nos		
			E-CSRL	7" x 32" x 6 Nos		
			F-ASTM A 106	7" x 32" x 7 Nos		
			G-ASTM A 517	7" x 32" x 8 Nos		
			H-ASTM A 516			

FCIBF-S11-M-WWW-100150450-D

FCI	BF	Style	Material	Construction	Size	Design
	Basket Filter Housing	S11 - Style - 1 - < 100 Micron - Good Manufacturing Practice	A-SS 304	WWW - Wire Mesh Wrap Round Welded	100 - Connection Size	Duplex
		S12 - Style - 1 - > 100 Micron - Good Manufacturing Practice	B-SS 316	WPW - Wire Mesh Pleated Welded	150 - Diameter Of Element	Simplex
		S21 - Style - 2 - < 100 Micron - ASME Sec VIII Div-1	C-SS 316 L		450 - Length Of Element	
		S22 - Style - 2 - > 100 Micron - ASME Sec VIII Div-1	D-CARBON STEEL			
			E-CSRL			
			F-ASTM A 106			
			G-ASTM A 517			
			H-ASTM A 516			

FCI=Filter Concept Inc

Product Code Abbreviation

1. FCIPMH63-10

FCI	PMH	Diameter Of Housing	Length Of Housing	Connection
	Polypropylene Molded Housing	63 MM	10" Length	3/4"
		110 MM	20" Length	1"
		150 MM		1.5"
				2"

FCIPPBH-410

FCI	PPBH	Size	Connection
	Polypropylene Bag Vessel Assembly	Ø 4" OD x 10" Length	1"
		Ø 4" OD x 20" Length	1.5"
		Ø 6" OD x 20" Length	2"

FCIPPM60-001-10-E

FCI	PPM	Diameter of cartridge	Micron Rating	Length Of Cartridge	Configuration
	Polypropylene Melt Blown	63 MM	001 Micron	10" Length	A - 226 O' Ring With Bayonet Design
		100 MM	005 Micron	20" Length	B - 226 O' Ring With Flat Design
		150 MM	010 Micron	30" Length	C - 222 O' Ring With Bayonet Design
			025 Micron	40" Length	D - 222 O' Ring With Flat Design
			050 Micron		E - DOE Type
			075 Micron		
			100 Micron		

FCIPPW60-005-P10-E

FCI	PPW	Diameter of cartridge	Micron Rating	Core	Length Of Cartridge	Configuration
	Polypropylene Wound	63 MM	001 Micron	PP - PP Core	10" Length	A - 226 O' Ring With Bayonet Design
		110 MM	005 Micron	SS - SS Core	20" Length	B - 226 O' Ring With Flate Design
		150 MM	010 Micron		30" Length	C - 222 O' Ring With Bayonet Design
			025 Micron		40" Length	D - 222 O' Ring With Flate Design
			050 Micron			E - DOE Type
			075 Micron			
			100 Micron			

FCI - Filter Concept Inc
FCIPPW - Polypropylene String Wound
FCIPEW - Polyester String Wound
FCIBCW - Blech Cotton String Wound
FCIGSW - Glass Fiber String Wound
FCIVSW - Viscous String Wound

Product Code Abbreviation

FCIPPL68A-0.20-10-E

FCI	PPL	Diameter of cartridge	Rating	Micron Rating	Length Of Cartridge	Configuration
	Polypropylene Pleated	68 MM	A-Absolute Rating	0.2 Micron	10" Length	A - 226 O' Ring With Bayonet Design
			B-Nominal Rating	0.45 Micron	20" Length	B - 226 O' Ring With Flat Design
				001 Micron	30" Length	C - 222 O' Ring With Bayonet Design
				005 Micron	40" Length	D - 222 O' Ring With Flat Design
				010 Micron		E - DOE Type
				030 Micron		
				060 Micron		

FCINYL68-0.2-10-E

FCI	NYL	Diameter of cartridge	Micron Rating	Length Of Cartridge	Configuration
	Nylon Pleated	68 MM	0.2 Micron	10" Length	A - 226 O' Ring With Bayonet Design
			0.45 Micron	20" Length	B - 226 O' Ring With Flat Design
			0.65 Micron	30" Length	C - 222 O' Ring With Bayonet Design
				40" Length	D - 222 O' Ring With Flat Design
					E - DOE Type

FCIPES68-0.2-10-E

FCI	PES	Diameter of cartridge	Micron Rating	Length Of Cartridge	Configuration
	Poly Ether Sulphone Pleated	68 MM	0.2 Micron	10" Length	A - 226 O' Ring With Bayonet Design
			0.45 Micron	20" Length	B - 226 O' Ring With Flat Design
			0.65 Micron	30" Length	C - 222 O' Ring With Bayonet Design
				40" Length	D - 222 O' Ring With Flat Design
					E - DOE Type

FCIPTE68-0.2-10-E

FCI	PTE	Diameter of cartridge	Micron Rating	Length Of Cartridge	Configuration
	Poly Tetra Fluoro Ethylene	68 MM	0.2 Micron	10" Length	A - 226 O' Ring With Bayonet Design
			0.45 Micron	20" Length	B - 226 O' Ring With Flat Design
				30" Length	C - 222 O' Ring With Bayonet Design
				40" Length	D - 222 O' Ring With Flat Design
					E - DOE Type

FCI - Filter Concept Inc

Product Code Abbreviation

FCIACE68-001-10

FCI	ACE	Diameter of cartridge	Micron Rating	Length Of Cartridge
	Activated Coal Carbon	68 MM	001 Micron	10" Length
		115 MM	005 Micron	20" Length
			010 Micron	30" Length
			025 Micron	40" Length

FCIRBCM60-001-10

FCI	RBCM	Diameter of cartridge	Micron Rating	Length Of Cartridge
	Resin Bonded Cellulose Melamine	63 MM	001 Micron	10" Length
			005 Micron	20" Length
			010 Micron	30" Length
			025 Micron	40" Length

FCICAOCX68-005-10

FCI	CAOCX	Diameter of cartridge	Micron Rating	Length Of Cartridge
	Oil Adsorbing	68 MM	001 Micron	10" Length
		110 MM	005 Micron	20" Length
			010 Micron	30" Length
			025 Micron	40" Length

FCISS31664-WPW-002-10-E

FCI	Material	Diameter	Construction	Micron Rating	Length	Configuration
	SS 304	64 MM	WWW - Wire Mesh Wrap Round Welded	0.1 Micron	10" Length	A - 226 O' Ring With Bayonet Design
	SS 316	110 MM	WWA - Wire Mesh Wrap Round Adhesive	0.2 Micron	20" Length	B - 226 O' Ring With Flat Design
			WPW - Wire Mesh Pleated Welded	0.5 Micron	30" Length	C - 222 O' Ring With Bayonet Design
			WPA - Wire Mesh Pleated Adhesive	001 Micron	40" Length	D - 222 O' Ring With Flat Design
			SMP - Sintered Metal Powered	003 Micron		E - DOE Type
				005 Micron		
				010 Micron		
				020 Micron		
				025 Micron		
				050 Micron		
				100 Micron		
				200 Micron		

FCI - Filter Concept Inc

Product Code Abbreviation

FCIPDC-M1-150500-M

FCI	PDC	Model	Size	Material
	Pleated Dust Collection Cartridge	M1- Model - 1	150 x 500	A - FCI 170
		M2 - Model -2	150 x 1000	B - FCI 200
		M3 - Model -3	150 x 1400	C - FCI 200 + PTF
			150 x 2000	D - FCI 200 + Alu
			225 x 500	E - FCI 260
			225 x 1000	F - FCI 260 + PTF
			225 x 1400	G - FCI 260 + ALU
			225 x 2000	H - FCI 260 + Alu + PTF
			325 x 500	I - FCI 260 PTFE + LAM
			325 x 606	
			325 x 1000	
			325 x 1400	

FCIPDB-EPDM-1601000-M

FCI	PDB	Model	Size	Material
	Pleated Dust Collection Bag	EPDM - Ethylene Propylene Diene Monomer	160 x 500	A - FCI 170
		NR - Natural Rubber	160 x 1000	B - FCI 200
		GI - Galvanized Iron	160 x 1400	C - 200 + PTF
		MLD - Molded Poly Urethene	160 x 2000	D - 200 + Alu
				E - FCI 260
				F - FCI 260 + PTE
				G - FCI 260 + ALU
				H - FCI 260 + Alu + PTFE
				I - FCI 260 PTFE + LAM

FCI - Filter Concept Inc

Product Code Abbreviation

FCIPPSG-025-WS-PD2

FCI	PPSG	025	WS	Bag Size	PD 2
		MICRON RATING	SEAM TREATMENT	1: Size 1 - 7"X17"	BAG SEAL RING
		001	WS : Welded Seam	2: Size 2 - 7"X32"	PD : Polypropylene SDS
		003	SE : Stitched Seam	3: Size 3 - 4"X10"	ED : Polyester SDS
		005		4: Size 4 - 4"X17"	PT : Polypropylene STS
		010		5: Size 5 - 6"X20"	ET : Polyester STS
		025			SS : Galvanized CS Snapfit
		050			ST : SS304 Snapfit
		075			SST : SS316 Snapfit
		100			PS : Polypropylene Snapfit
					TS : Tie String

FCIPPSG : Polypropylene Non-Woven Felt Standard Class, Nominal Rating

FCIPPE : Polypropylene Non-Woven Felt Extended Class, Nominal Rating

FCIPPX : Polypropylene Non-Woven Felt Durable Class, Nominal Rating

FCIAPM : Polypropylene Matrix Composites, Absolute Rating

FCIPXP : Polypropylene Pleated Composites, Absolute Rating

FCIPPAB : Polypropylene Microfiber Oil Adsorbent Composites, Nominal Rating

FCIOAP : Polypropylene Microfiber Oil Adsorbent Composites Pleated, Absolute Rating

FCIPESG : Polyester Non-Woven Felt Standard Class, Nominal Rating

FCIPEE : Polyester Non-Woven Felt Extended Class, Nominal Rating

FCIPEX : Polyester Non-Woven Felt Durable Class, Nominal Rating

FCIEXP : Polyester Pleated Composites, Absolute Rating

FCINLM : Nylon Monofilament Mesh Standard Class, Absolute Rating

FCINMX : Nylon Monofilament Mesh Extended Class, Absolute Rating

FCINMB : Nylon Monofilament Mesh Bulk Class, Nominal Rating

FCIPEM : Polyester Monofilament Mesh Standard Class, Absolute Rating

FCIEMX : Polyester Monofilament Mesh Extended Class, Absolute Rating

FCIPPM : Polypropylene Monofilament Mesh Standard Class, Absolute Rating

FCIPMX : Polypropylene Monofilament Mesh Extended Class, Absolute Rating

FCIACBX : Activated Coconut Shell Carbon Absorbent Composites

Chemical Compatibilities -Filter Media, Vessel Housing & Gasket Material

Filter Media:	Container Material:	Core Material & Band Ring for Bags:	Gasket Material:
F-1 - Rayon F-2 - Cotton F-3 - Acetate F-5 - Orlon (Acrylic) F-6 - Nylon F-7 - Glass Fiber F-9 - Polypropylene F-10 - Cranite (Fullers Earth) F-11 - Rayon Cellulose F-12 - Cotton Waste & Excelsior F-13 - Phenolic Resin Pleated Paper (718 size) F-15 - Polyester F-17 - Phenolic Resin Pleated (2 1/2" Dia.) F-18 - PCC F-19 RBC F-20 - Polymate F-21 - Advantage	C-1 - Steel C-2 - Stainless Steel C-4 - Rubber Lined C-5 - Special (Kynar, PVC, Fluoroshield, etc.) C-6 - Carpernter 20 C-7 - Plastic C-8 - Fiberglass Reinforced Plastic	H-1 - Tinned Steel H-2 - 304Stainless Steel H-4 - 316 Stainless Steel H-9 - Polypropylene H-10 - Passivated 316 Stainless Steel H-12 - Glass Filled Polypropylene H-13 - Nylon	G-1 - Asbestos Substitute G-2 - Buna N G-3 - Neoprene G-4 - Plant Fiber G-5 - Teflon G-6 - Butyl Rubber G-7 - Buna N FDA (Tasteless,Odorless, Non-Toxic) G-8 - Natural Rubber G-9 - Viton G-10 - EthylenePropylene (EPM, EPR & EPDM) G-11 - Hypalon G-12 - Cork G-13 - Silicone

% Concentration		Temp. F	Filter Media	Container	Core	Gasket
Acetaldehyde		125	F-6,9,15	C-2	H-2	G-5
Acetaldehyde	10%	70	F-15	C-2	H-2	G-5
Acetamide	Any	150	F-6	C-1,2	H-1,2	G-2,3
Acetate Solvents		Note 2,3	F-1,2,7	C-1	H-1	G-1,5
Acetate Solvents		70	F-9	C-1	H-1	G-1,5
Acetic Acid	0-20%	100	F-1,2,9,15,17,19,20	C-2	H-2,9,12	G-3,5,6,10,11
Acetic Acid	50%	Note 2,8	F-9	C-2	H-2,9,12	G-5-6-10
Acetic Acid	75%	100	F-7,9	C-2	H-2,3	G-1,5,6,10
Acetic Acid	Any	Note 2	F-5,7,9	C-2,6	H-2	G-1,5,6,10
Acetic Acid	100%	70	F-5,7,9,15	C-2,6	H-2,9,12	G-1,5,6,10
Acetic Anhydride	Any	200	F-7	C-2,6	H-2	G-5
Acetic Anhydride	Any	125	F-7,9	C-2,6	H-2,12	G-5
Acetone		50	F-1,2,9,15,17,18,19,20,21	C-1	H-1,9,12	G-1,4,5,10
Acetonitrile			F-18	C-2	H-2	G-2,3,9,10,13
Acetophenone	100%		F-9	C-2	H-2,9	G-5,10
Acetyl Chloride			F-8	C-2	H-2	G-5,9
Acetylsalicylic Acid		125	F-1,2	C-2	H-2	G-2,3,7
Acetylene		150	F-1,2,6,9,15,17	C-1	H-1,12	G-2,6,9,10
Acriflavine	2%		F-9		H-9	
Acrylic Emulsions			F-9		H-9	
Acrylonitrile	100%	70	F-1,2,6,15,19	C-2	H-2,13	G-5
Adhesives				C-1,2	H-1	G-2,3,5
Adipic Acid	100%		F-9,19	C-5	H-9	C-5, 9
Air		Note 2,8	F-1,2,7,9,15,17,18,21	C-1	H-1,2,9,12	C-1,2,3,4,13
Alcohol Solvents		Note 2,3	F-1,2,7,9,13,18	C-1	H-1	G-1,5,9,13
Ally Alcohol			F-1,2,9	C-1	H-1	G-2,3,5,6
Ally Chloride			F-9	C-2	H-9	G-5
Almond Extract			F-9		H-9	
Alum	Any	160	F-9-15	C-4,5	H-4	G-1,2,3,6,10
Aluminum Acetate		180	F-1,2,17	C-4,5	H-4	G-5,6,10
Aluminum Acetate	65%	70	F-15	C-4,5	H-4	G-5,6,10
Aluminous Chloride	Any	130	F-1,2,9,15,17	C-4,5	H-12	G-2,3,6,10,11
Aluminum Fluoride			F-9		H-9	
Aluminum Hydroxide		70	F-1,2,6,9	C-1,2,6	H-2,9,13	
Aluminum Nitrate	Any	150	F-1,2,15,17	C-2	H-4	G-2,3,6,10
Aluminum Oxychloride			F-9		H-9	
Aluminum Potassium Sulfate			F-9		H-9	
Aluminum Sulfate		70	F-6-9-15	C-1,2	H-1,2,9	G-2,3,5,6,10
Amino Acids		150	F-1,2	C-2	H-4	G-5
Amino Ethanolamine		225	F-1,2	C-1,2	H-2	G-5,6
Ammonia	30%	70	F-2,18	C-1	H-2,4,9,12	G-2,3,6,10,13
Ammonia Liquid Anhydrous		Note 3,8	F-6,7,9,21	C-1	H-2,4,9,12	G-2,3,6,10
Ammonia Gas (Dry)		Note 3,8,11	F- 1,2,6,9,17,19	C-1	H-1,2,9,12	G-2,3,10,11
Ammonia Gas (Wet)		Note 3,8,11	F-5,6,9,19	C-2	H-4,9,12	G-2,3,5,10,11
Ammomonium Acetate	Any	125	F-9	C-2	H-4,12	G-5

Note: The Chemical Compatibility charts are indicative. FCPL does not guarantee for its compactibility against Application unless its cunsulted with us in Writting

Chemical Compatibilities -Filter Media, Vessel Housing & Gasket Material

Filter Media:	Container Material:	Core Material & Band Ring for Bags:	Gasket Material:
F-1 - Rayon F-2 - Cotton F-3 - Acetate F-5 - Orlon (Acrylic) F-6 - Nylon F-7 - Glass Fiber F-9 - Polypropylene F-10 - Cranite (Fullers Earth) F-11 - Rayon Cellulose F-12 - Cotton Waste & Excelsior F-13 - Phenolic Resin Pleated Paper (718 size) F-15 - Polyester F-17 - Phenolic Resin Pleated (2 1/2" Dia.) F-18 - PCC F-19 RBC F-20 - Polymate F-21 - Advantage	C-1 - Steel C-2 - Stainless Steel C-4 - Rubber Lined C-5 - Special (Kynar, PVC, Fluoroshield, etc.) C-6 - Carpernter 20 C-7 - Plastic C-8 - Fiberglass Reinforced Plastic	H-1 - Tinned Steel H-2 - 304Stainless Steel H-4 - 316 Stainless Steel H-9 - Polypropylene H-10 - Passivated 316 Stainless Steel H-12 - Glass Filled Polypropylene H-13 - Nylon	G-1 - Asbestos Substitute G-2 - Buna N G-3 - Neoprene G-4 - Plant Fiber G-5 - Teflon G-6 - Butyl Rubber G-7 - Buna N FDA (Tasteless,Odorless, Non-Toxic) G-8 - Natural Rubber G-9 - Viton G-10 - EthylenePropylene (EPM, EPR & EPDM) G-11 - Hypalon G-12 - Cork G-13 - Silicone

% Concentration		Temp. F	Filter Media	Container	Core	Gasket
Ammonium Bicarbonate	Any	125	F-9	C-2	H-4,12	G-3,5,10
Ammonium Bicarbonate	50%	160	F-1,2,15,17	C-2	H-4,12	G,3,5,10
Ammonium Bromide	Any	Note 3,8	F-5,7,9,15	C-4	H-4,9,12	G-5
Ammonium Carbonate	Any	150	F-1,2,9,15,17	C-1	H-9,12	G-3,6,10
Ammonium Chloride	Any	Note 3,8	F-1,2,5,7,9,15,17	C-4	H-4,9,12	G-2,3,6,10,11
Ammonium Fluoride	Any	Note 3,8	F-5,9	C-4	H-9,12	G-3,5
Ammonium Fluoride	40%	150	F-5,9,15	C-4	H-12	G-3,5
Ammonium Hydroxide	28%	150	F-1,2,9,15,17,18,20,21	C-1,2	H-2,9,12	G-3,6,10,11,13
Ammonium Hyposulfite	Any	180	F-1,2	C-2	H-2	G-3,5,7
Ammonium Nitrate	Any	Note 3,8	F-5,6,9,15	C-1,2	H-2,6,9,12	G-2,3,6,11
Ammonium Oxalate	5%	Note 3,8	F-9	C-2	H-2,9,12	G-3,7
Ammonium Persulfate	Any	180	F-9,15	C-2	H-2,4,12	G,3,7,10
Ammonium Persulfate	5%	Note 3,8	F-9,15	C-2	H-2,4,9,12	G-3,7,10
Ammonium Persulfate	Any	Note 3,8	F-7,9,15	C-2	H-2,4,9,12	G-2,3,6,10,11
Ammonium Phosphate		140	F-9	C-2	H-2,4,9	G-2,3,5,6,9,10,13
Ammonium Sulfate	Any	Note 3,8	F-7,9,15	C-2	H-2,4,9,12	G-2,3,6,10,11
Ammonium Sulfate	5%	70	F-9,15	C-2	H-2,4,9	G-2,3,5,10
Ammonium Sulfide			F-9	C-2	H-2,10	G-2,3,5,9
Ammonium Thiocyanate	Any	Boil	F-1,2	C-2	H-2	G-5,6
Amyl Acetate	Any	Note 3	F-1,2,15,18	C-1	H-1,2	G-4,5,10
Amyl Alcohol	Any	150	F-1,2,9,15,17,18,21	C-2	H-4,9,12	G-3,5,6,10
Amyl Chloride			F-21	C-2	H-2,4	G-5,6,10
Aniline	100%	150	F-1,2,9,15	C-2	H-2,4	G-5,6,10
Antimony Trichloride			F-9	C-2	H-9	G-5,9,10
Arsenic Acid	Any	Note 3,8	F-9	C-2,4	H-4,9,12	G-2,3,6,10,11
Arsenic Acid	80%	70	F-9,15,19	C-2,4	H-4,9,12	G-2,3,6,10,11
Aqua Regia		Note 11	F-7,9		H-9	G-5,9
Asphalt		70	F-1,2,9	C-1,2	H-1,2,4	G-5,9
Banana Oil		70	F-1,6,15	C-1,2	H-1,2,4,13	G-4,5
Barium Carbonate		Note11	F-6,15,9	C-2	H-9,13	G-2,3,5,9,10
Barium Chloride	10%	Note 2,8,	F-1,2,9,15,17	C-4,5	H-9,12	G-2,3,6,10,11
Barium Hydroxide			F-9		H-9	
Barium Sulfate			F-9		H-9	
Barium Sulfide			F-9		H-9	
Beer			F-1,2,17	C-2	H-2,4	G-2,3,7
Beet Sugar Liquors			F-1,2,9	C-2	H-2,4	G-2,5,6,10,13
Benzaldehyde	100%	70	F-1,6,7,15,17,18,20,21	C-1	H-13	G-5,6,10
Benzene		Note 11	F-1,2,15,17,18,19	C-1	H-1	G-4,9
Benzoic Acid	10%	Note 3,8	F-1,2,9,15	C-2	H-2,9,10,12	G-1,5,9
Benzoic Acid	Any	Note 3,8	F-9,15	C-2	H-2,9,12	G-5,9
Benzyl Alcohol	Any	150	F-1,2,9,15,17	C-1,2	H-1,2,6	G-2,3,10,11
Benzyl Chloride			F-9	C-2	H-9	G-5,9
Bismuth carbonate			F-9	C-2	H-9	G-5,7,9
Bleach			F-9	C-2	H-9	G-5,10
Borax			F-9	C-2	H-2,9,10	G-3,5,9

Chemical Compatibilities -Filter Media, Vessel Housing & Gasket Material

Filter Media:	Container Material:	Core Material & Band Ring for Bags:	Gasket Material:
F-1 - Rayon F-2 - Cotton F-3 - Acetate F-5 - Orlon (Acrylic) F-6 - Nylon F-7 - Glass Fiber F-9 - Polypropylene F-10 - Cranite (Fullers Earth) F-11 - Rayon Cellulose F-12 - Cotton Waste & Excelsior F-13 - Phenolic Resin Pleated Paper (718 size) F-15 - Polyester F-17 - Phenolic Resin Pleated ($2\frac{1}{2}$" Dia.) F-18 - PCC F-19 RBC F-20 - Polymate F-21 - Advantage	C-1 - Steel C-2 - Stainless Steel C-4 - Rubber Lined C-5 - Special (Kynar, PVC, Fluoroshield, etc.) C-6 - Carpernter 20 C-7 - Plastic C-8 - Fiberglass Reinforced Plastic	H-1 - Tinned Steel H-2 - 304Stainless Steel H-4 - 316 Stainless Steel H-9 - Polypropylene H-10 - Passivated 316 Stainless Steel H-12 - Glass Filled Polypropylene H-13 - Nylon	G-1 - Asbestos Substitute G-2 - Buna N G-3 - Neoprene G-4 - Plant Fiber G-5 - Teflon G-6 - Butyl Rubber G-7 - Buna N FDA (Tasteless,Odorless, Non-Toxic) G-8 - Natural Rubber G-9 - Viton G-10 - EthylenePropylene (EPM, EPR & EPDM) G-11 - Hypalon G-12 - Cork G-13 - Silicone

% Concentration		Temp. F	Filter Media	Container	Core	Gasket
Boric Acid	10%	Note 3,8	F-1,2,9,15,17	C-2	H-1,2,9,12	G-2,3,4,5,6,10,11
Boric Acid	Any	Note 3,8	F-9,15	C-2	H-1,4,9,12	G-2,3,4,5,6,10,11
Brandy			F-1,2	C-2	H-2	G-7
Brine			See Water, Salt			
Bromine Anhydrous	100%	Note 3	F-1,2	C-5	H-4	G-5,9
Bromine Water	Any	Note 3	F-7	C-2	H-2,4	G-5,9
Bromotoulene						
Butane Gas			F-1,2,15,17	C-1	H-1	G-2,3,9
Butanoic Acid			F-1,6,9	C-2	H-1,2,4,13	G-5,9
Butly Acetate	Any	70	F-1,2,18,19,20,21	C-1	H-2,4	G-4,5
Butyl Alcohol (Butanol)	Any	150	F-1,2,9,15,17,18,19,20,21	C-1	H-1,9,12	G-2,3,4,11,13
Butyl Cellosolve		70	F-1,9,18,21	C-2	H-1,2,4,9	G-6,10
Butyl Chloride		70	F-1	C-1,2	H-2,4	
Butylene		70	F-1,6	C-1,2	H-1,2,4,13	G-5,9
Butylphthalate			F-9		H-9	
Calcium Carbonate			F-5,6,9	C-2	H-2,9,10	G-2,3,5,9
Calcium Chlorate			F-9	C-2	H-2,9,10	G-2,3,5,9
Calcium Chloride	Any	Note 2,8	F-1,5,9,15,17	C-2	H-4,9,12	G-2,3,6,10
Calcium Hydroxide	Any	Note 3,8	F-6,9	C-4	H-4,9,12,13	G-5,10
Calcium Hydroxide	5%	150	F-1,2,9,17	C-2	H-4,9,12	G-5,10
Calcium Hypochlorite	Any	Note 3,8	F-5,9	C-4,5	H-4,9,12	G-5,6,9,10,11
Calcium Nitrate	Any	Note 3,8	F-1,2,9,15,17,21	C-1	H-2,9,12	G-2,3,6,10,11
Calcium Phosphate			F-9		H-9	
Calcium Sulfate			F-9	C-2,5	H-2,9,10	G-2,3,5,7,9
Calcium Sulfide			F-9	C-2	H-9	G-5,7,9
Calgonite			F-9		H-9	
Cane Sugar	Any	Note 2	F-1,2,3,9	C-1,2	H-2,4	G-5,7
Caprolactam	100%	160	F-7	C-2	H-2	G-5
Carbolic Acid			See Phenol			
Carbon Dioxide (Gas)	Any	225	F-1,2,7,15,17,18,20	C-1	H-1	G-2
Carbon Dioxide/Ethylene oxide Mixture	90/10	Note 2	F-1,2	C-2	H-2	G-5,13
Carbon Disulfide		Note 3,8	F-1,2,15,20,21	C-2	H-2,4,9,12	G-5,9
Carbon Monoxide		Note 2,3	F-1,2	C-1	H-1	G-2
Carbon Monoxide		180	F-1,2,7,9,15	C-1	H-1	G-2
Carbon Tetrachloride (Dry)		Note 2	F-1,2,6,15,18	C-1	H-1	G-4,5,9
Carbon Tetrachloride (Wet)		Note 2	F-1,2,6,15	C-2	H-13,2	G-4,5,9
Carbonated Water		100	F-1,2,6,9	C-2	H-2,4,9,13	G-2,3,5,6,9,10,13
Carbonic Acid	Any	100	F-1,2,6,7,9,21	C-2	H-2,4,9,12,13	G-5,9,13
Cascade (1%)			F-9		H-9	
Casein			F-9	C-2	H-9	G-2,5,7,9
Castor Oil		Note 2,8	F-1,2,9,19	C-1,2	H-2,9,12	G-2,3,9,11
Caustic Potash			See Potassium Hydroxide			
Caustic Soda			See Sodium Hydroxide			
Cellosolve			F-9,20	C-1,2,4	H-9	G-5,9
Cetyl Alcohol			F-5,6,9		H-9,13	G-5

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Chemical Compatibilities -Filter Media, Vessel Housing & Gasket Material

Filter Media:	Container Material:	Core Material & Band Ring for Bags:	Gasket Material:
F-1 - Rayon F-2 - Cotton F-3 - Acetate F-5 - Orlon (Acrylic) F-6 - Nylon F-7 - Glass Fiber F-9 - Polypropylene F-10 - Cranite (Fullers Earth) F-11 - Rayon Cellulose F-12 - Cotton Waste & Excelsior F-13 - Phenolic Resin Pleated Paper (718 size) F-15 - Polyester F-17 - Phenolic Resin Pleated (2 1/2" Dia.) F-18 - PCC F-19 RBC F-20 - Polymate F-21 - Advantage	C-1 - Steel C-2 - Stainless Steel C-4 - Rubber Lined C-5 - Special (Kynar, PVC, Fluoroshield, etc.) C-6 - Carpenter 20 C-7 - Plastic C-8 - Fiberglass Reinforced Plastic	H-1 - Tinned Steel H-2 - 304Stainless Steel H-4 - 316 Stainless Steel H-9 - Polypropylene H-10 - Passivated 316 Stainless Steel H-12 - Glass Filled Polypropylene H-13 - Nylon	G-1 - Asbestos Substitute G-2 - Buna N G-3 - Neoprene G-4 - Plant Fiber G-5 - Teflon G-6 - Butyl Rubber G-7 - Buna N FDA (Tasteless,Odorless, Non-Toxic) G-8 - Natural Rubber G-9 - Viton G-10 - EthylenePropylene (EPM, EPR & EPDM) G-11 - Hypalon G-12 - Cork G-13 - Silicone

% Concentration		Temp. F	Filter Media	Container	Core	Gasket
Chloracetic Acid		70	F-9	C-2	H-9	G-5
Chlorinated Hydrocarbons		Note 2	F-1,2,10	C-1	H-1	G-1,4,5,9
Chlorinated Paraffin		Note 2	F-1,2	C-1	H-1	G-1,4,5,9
Chlorine Gas (Dry)	Any	Note 3	F-5,7,15	C-4,5,6	H-4	G-5,9
Chlorine Gas (Wet)	Any	Note 3	F-5,7,15	C-5		G-1,5,9
Chlorine Water	Any	Note 3	F-5,7,15	C-4,5		G-1,3,5,9
Chlorobenzene		200	F-1,2,5,6,7,15,19	C-2	H-2,4,13	G-5,9
Chloroform	Any		F-1,2,6,15,18,19	C-1	H-1,13	G-1,4,5,9
Chlorophane			F-1,2	C-1	H-1	G-1,4,5,9
Chocolate Syrup			F-9		H-9	
Chlorosulfonic Acid		100		C-2	H-4	G-5
Chrome Alum			F-9		H-9	
Chromic Acid	10%	100	F-7,9,15,20,21	C-6	H-4,9,12	G-5,9
Chromic Acid	Any	200	F-7,9	C-6	H-4	G-5,9
Chromic Sulfate	Any	140	F-7,9,15	C-4	H-4,12	G-5
Cider			F-1,9	C-4	H-9	G-2,3,6,9,10,13
Citric Acid	Any	Note 3,8,11	F-1,2,9,17,18,19,21	C-2	H-2,9,12	G-1,2,3,6,7,10,13
Cobalt Carbonate	10%		F-2	C-2	H-1	G-5
Coconut Oil		Note 2	F-1,2,10,19	C-1,2	H-1,2	G-2,6,7,12
Cod Liver Oil			F-9		H-9	
Code Oven Gas			F-9		H-9	
Corn Oil		Note 2	F-1,2,9	C-1,2	H-1,2	G-2,6,7,12
Cotton Seed Oil		Note 2	F-1,2,6,9,10,18,20,21	C-1,2	H-1,2	G-2,6,7,12,13
Lard		Note 2	F-1,2,9,10	C-1,2	H-1,2	G-2,6,7,12
Peanut Oil		Note 2	F-1,2,9,10	C-1,2	H-1,2	G-2,6,7,12
Soybean Oil		Note 2	F-1,2,9,10	C-1,2	H-1,2	G-2,6,7,12
Coffee Extract		70	F-1,6,9,15	C-2	H-2,4,13	G-2,3,5,6,13
Cola Syrup		70	F-1,9	C-2	H-2,4,9	G-5
Copper Ammonium Acetate		Note 3	F-9	C-2	H-4	G-5,6
Copper Chloride			F-9		H-9	
Copper Cyanide			F-9		H-9	
Copper Fluoride			F-9		H-9	
Copper Nitrate			F-9		H-9	
Copper Sulfate	Any	Note 3,8	F-5,9,15	C-2,4	H-2,4,9,12	G-1,2,3,9,10,11
Corn Syrup	Any	Note 2	F-1,2	C-2	H-2	G-5,7
Cresol, Cresylic Acid		Note 3	F-1,2	C-2	H-4	G-1,5,9
Cuprous Chloride			F-9		H-9	
Cyclohexanol			F-9,18		H-9	G-10
Cyclohexanone		70	F-1,2	C-2		G-5
Decalin			F-9		H-9	
Detergents			F-1,2,17	C-1	H-1	G-1,5,6,10
Dextrin			F-9		H-9	
Dextrose			F-1,2,9	C-1,2	H-1,2,4,9	G-2,3,5,6,10,13
Diazo Salts			F-9		H-9	
Diacetone Alcohol			F-1,2,17	C-1	H-1	G-1,5,6,10

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Chemical Compatibilities -Filter Media, Vessel Housing & Gasket Material

Filter Media:	Container Material:	Core Material & Band Ring for Bags:	Gasket Material:
F-1 - Rayon F-2 - Cotton F-3 - Acetate F-5 - Orlon (Acrylic) F-6 - Nylon F-7 - Glass Fiber F-9 - Polypropylene F-10 - Cranite (Fullers Earth) F-11 - Rayon Cellulose F-12 - Cotton Waste & Excelsior F-13 - Phenolic Resin Pleated Paper (718 size) F-15 - Polyester F-17 - Phenolic Resin Pleated (2½"Dia.) F-18 - PCC F-19 RBC F-20 - Polymate F-21 - Advantage	C-1 - Steel C-2 - Stainless Steel C-4 - Rubber Lined C-5 - Special (Kynar, PVC, Fluoroshield, etc.) C-6 - Carpernter 20 C-7 - Plastic C-8 - Fiberglass Reinforced Plastic	H-1 - Tinned Steel H-2 - 304Stainless Steel H-4 - 316 Stainless Steel H-9 - Polypropylene H-10 - Passivated 316 Stainless Steel H-12 - Glass Filled Polypropylene H-13 - Nylon	G-1 - Asbestos Substitute G-2 - Buna N G-3 - Neoprene G-4 - Plant Fiber G-5 - Teflon G-6 - Butyl Rubber G-7 - Buna N FDA (Tasteless,Odorless, Non-Toxic) G-8 - Natural Rubber G-9 - Viton G-10 - EthylenePropylene (EPM, EPR & EPDM) G-11 - Hypalon G-12 - Cork G-13 - Silicone

% Concentration		Temp. F	Filter Media	Container	Core	Gasket
Dibromocholopropane	0	0	F-9	C-1 W/Water C-2W/OWater	H-1	G-2,5,10
Dibutyl Phthalate	Any	Note 3,8	F-1,2	C-1	H-9,12	G-1,4,5,9
Dibutyl Phthalate	Any	150	F-9	C-1	H-9,12	G-1,4,5,9
Dichloroethylene		Note 11	F-1,2,6,9,19	C-1	H-1,13	G,1,4
Diethanolamine		Note 3	F-1,2,6,9,15,20,21	C-1	H-1,13	G-2,3
Diethylene Glycol		Note 2	F-1,2,9,17,18,21	C-1	H-1	G-1,2,3,6,9
Diglycolic Acid			F-9		H-9	
Diisoctyl Phthalate			F-9		H-9	
Dimethyl Fluoride		Note 2	F-5	C-4,5	H-4	G-5
Dimethyl Formamide	100%	150	F-7,9,18,21	C-2	H-2,4,9,12	G-4,5
Dimethyl Formamide	50%	70	F-7,9,18,21	C-2	H-2,4,9,12	G-4,5
Dimethyl Phthalate	Any	Note 2	F-1,2,17,19	C-1	H-1	G-5,6,9,10
Dimethyl Terephthalate	Any	290	F-7	C-2	H-2,4	G-5
Diphenyl Oxide		70	F-2,9	C-1,2	H-1,2,4,9	G-5,9
Dioctyl Phthalate	100%	70	F-1,2,9,15	C-1	H-1	G-6,9,10
Dioxane	100%	70	F-15	C-2	H-2,4	G-5,6,10
Emulsifiers			F-9		H-9	
Epichiorohydrin		Note 2	F-1,2,17	C-4	H-4	G-5,6,10
Ethanolamine		70	F-1,9	C-1,2	H-1,2,4,9	G-5
Ether			F-1,2,9,15,17,19	C-1,2	H-2,9,12	G-1,5
Ethyl Acefate		150	F-1,2,9,15,17,18,19	C-1	H-2,4,9,12	G-1,4,5,6,10
Ethyl Acrylate		70	F-2	C-2	H-4	G-1,5
Ethyl Alcohol			F-1,2,9,15,17,18,19,21	C-1,2	H-1,2,9,12	G-1,2,3,6,7,10,13
Ethyl Cellulose		70	F-9,20	C-1,2	H-2,4,9	G-5
Ethyl Chloride		Note 3	F-1,2	C-2,5	H-1,2,4	G-2,3,6,9,10
Ethyl Ether			F-1,2,9,15,17,18,19,20,21	C-1,2	H-2,9,12	G-1,5
2 Ethylhexyl Acrylate		70	F-2	C-2	H-4	G-1,5
Ethylene	Liquid Gas	Note 3	F-1,2	C-2	H-2,4	G-1,5,8
Ethylene Amine			F-9		H-9	
Ethylenediamine	100%		F-1,2,9,17	C-1,2	H-2,9,12	G-2,3,5,6,10
Ethylene Dichioride			F-1,2,18,20,21	C-1,2	H-2,4,9,12	G-5,9
Ethylene Glycol	Any	Note 2	F-1,2,9,13,18,19,20,21	C-1	H-1,13	G-1,2,3,4,5,6
Ethylene Oxide	100%	50	F-1,2,17,18,19	C-2	H-2,4	G-1,5
Fatty Acids	Any	Note2,8	F-1,2,5,9,15,17	C-2,5	H-2,4,9,12	G-2,5,9
Ferric Ammonium Sulfate	Any	70	F-9,15	C-4,5	H-9,12	G,2,3
Ferric Chloride	25%	Note2,8	F-5,7,9,15	C-4,5	H-9,12	G-1,2,5,6,9,10
Ferric Chloride	70%	100	F- 5,7,9,15,18,20,21	C-4,5	H-9,12	G-2,5,6,9,10
Ferric Nitrate	Any	Note 3,8	F-9,15	C-2	H-2,4,9,12	G-2,3,5,6,9,10
Ferric Potassium Sulfate	Any	Note 3	F-7,15	C-4,5	H-4	G-2,3,5
Ferric Sulfate	Any	Note 3,8	F-7,15,18,21	C-4,5	H-4	G-2,3,5
Ferrous Chloride		70	F-6,9,15		H-9,13	
Firquel			F-2,10	C-1	H-1	G-5,6,9,10
Fish Oils		70	F-1,9	C-2	H-1,2,4,9	G-2,5,6
Floor Wax			F-9		H-9	
Fluoroboric Acid			F-9		H-9	

Note: The Chemical Compatibility charts are indicative. FCPL does not guarantee for its compactibility against Application unless its cunsulted with us in Writing

Chemical Compatibilities -Filter Media, Vessel Housing & Gasket Material

Filter Media:	Container Material:	Core Material & Band Ring for Bags:	Gasket Material:
F-1 - Rayon F-2 - Cotton F-3 - Acetate F-5 - Orlon (Acrylic) F-6 - Nylon F-7 - Glass Fiber F-9 - Polypropylene F-10 - Cranite (Fullers Earth) F-11 - Rayon Cellulose F-12 - Cotton Waste & Excelsior F-13 - Phenolic Resin Pleated Paper (718 size) F-15 - Polyester F-17 - Phenolic Resin Pleated (2½" Dia.) F-18 - PCC F-19 RBC F-20 - Polymate F-21 - Advantage	C-1 - Steel C-2 - Stainless Steel C-4 - Rubber Lined C-5 - Special (Kynar, PVC, Fluoroshield, etc.) C-6 - Carpernter 20 C-7 - Plastic C-8 - Fiberglass Reinforced Plastic	H-1 - Tinned Steel H-2 - 304Stainless Steel H-4 - 316 Stainless Steel H-9 - Polypropylene H-10 - Passivated 316 Stainless Steel H-12 - Glass Filled Polypropylene H-13 - Nylon	G-1 - Asbestos Substitute G-2 - Buna N G-3 - Neoprene G-4 - Plant Fiber G-5 - Teflon G-6 - Butyl Rubber G-7 - Buna N FDA (Tasteless,Odorless, Non-Toxic) G-8 - Natural Rubber G-9 - Viton G-10 - EthylenePropylene (EPM, EPR & EPDM) G-11 - Hypalon G-12 - Cork G-13 - Silicone

% Concentration		Temp. F	Filter Media	Container	Core	Gasket
Fluosilic Acid		70	F-1,9,	C-2	H-9	G-5,6
Formaldehyde	10%	70	F-7,9,15,20	C-2,4	H-2,4,9,12	G-2,3,5,6,10
Formalin	40%		F-1,9	C-2	H-2,4,9	G-5
Formic Acid	Any	Note 2,8	F-5,7,9,15,18,20,21	C-2,6	H-4,9,12	G-2,3,5,13
Freon 11	Any	Note 3,8	F-1,2,15,18,20,21	C-2	H-1,2,4	G-9,11
Freon 12	Any	Note 3,8	F-1,2,15,18,19,20,21	C-2	H-1,2,4	G-2,3,9,11
Freon 22	Any	Note 3,8	F-1,2,15,18,19,20,21	C-2	H-1,2,4	G-1,2,3,5,6,10
Freon Ethylene Oxide Mixture	12/88	-30	F-1,2,20,21	C-2	H-2	G-5
Fructose			F-9		H-9	
Fruit Juices		70	F-1,9	C-2	H-9	G-2,3,5,6,9,13
Fuel Oils			F-1,2,6,7,15,17,19	C-1,2	H-1,2,9	G-2,3,4,5,9
Furfural	Any		F-2,9,19	C-1	H-1	G-5
Galic Acid			F-9		H-9	
Gas, Mfg., Natural			F-1,2,17	C-1	H-1,3	G-1,2,3,4
Gear Box Oil			F-9		H-9	
Gelatin	Any	Note 2,8	F-1,2,3,15,17	C-2	H-2,4	G-2,3,7,9,10
Glucose			F-9		H-9	
Glue			F-9		H-9	
Glycerin	100%	Note 2,8	F-1,2,13,17,18,21	C-1,2	H-1,2,4	G-1,2,3,7,13
Glycol			F-6,9		H-9,13	
Glycol Monoether		70	F-1,9	C-2	H-2,4,9	G-2,3,5,9,10
Glycol Solvents		Note 2,3	F-1,2,9	C-1	H-1	G-1,5,9
Glycolic Acid			F-9		H-9	
Green Soap Solution		70	F-9		H-9	G-5,6,9,10
Green Sulfate Liquors			F-9		H-9	G-5,6,9,10
Gum Arabic	Any	Note 3	F-1,2	C-2	H-2	G-3,4,5
Helium Gas			F-1,2,17,18,19,21	C-1	H-1	G-2,3,6,9,10,13
Heptane			F-1,2,17,18,21	C-1	H-1	G-2,9,13
Hexadecyl Alcohol			F-9		H-9	
Hexane			F-1,2,6,7,9,15,18,20,21	C-1,2	H-1,2,4,9,13	G-2,3,5
Hexanol Tertiary			F-9		H-9	
Honey			F-2	C-2	H-2,4	G-2,3,5,9,10
Hydraulic Oils (Phosphate Ester)		Note 2	F-1,2,6,10,11,18,20,21	C-1	H-2,13	G-2,6,9,13
Hydraulic Oils (Skydrol 500)		Note 2	F-1,2,10,17,18,20,21	C-1	H-1	G-6,10
Hydrolubes		Note 2	F-13	C-1	H-1	G-2,5,9,10
Hydrazine			F-7,18,21	C-2	H-4	G-3,5,6,9,10
Hydrobromic Acid	50%	140	F-9	C-5	H-12	G-5
Hydrochloric Acid	20%	150	F-5,7,9,15	C-4,5	H-4,9,12	G-1,5,9
Hydrochloric Acid	5%	160	F-7,9,19		H-9	G,2,3,5,6,9,10
Hydrochloric Acid	35%	Note 3,8	F-5,7,9	C-4,5	H-4,9,12	G,1,5,9
Hydrochloric Acid	10%		F-9,20,21		H-9	
Hydrochloric Acid (Wet)		70	F-7	C-5	H-1	G-5
Hydrocyanic Acid	Any	Note 3,8	F-7,9,15	C-2,5	H-4,9,12	G-5,6,9,10,11
Hydrofluoric Acid	48%	Note 3,8	F-5,9	C-4,5	H-9,12	G-5
Hydrogen Chloride			F-9		H-9	

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Chemical Compatibilities -Filter Media, Vessel Housing & Gasket Material

Filter Media:	Container Material:	Core Material & Band Ring for Bags:	Gasket Material:
F-1 - Rayon F-2 - Cotton F-3 - Acetate F-5 - Orlon (Acrylic) F-6 - Nylon F-7 - Glass Fiber F-9 - Polypropylene F-10 - Cranite (Fullers Earth) F-11 - Rayon Cellulose F-12 - Cotton Waste & Excelsior F-13 - Phenolic Resin Pleated Paper (718 size) F-15 - Polyester F-17 - Phenolic Resin Pleated (2 1/2" Dia.) F-18 - PCC F-19 RBC F-20 - Polymate F-21 - Advantage	C-1 - Steel C-2 - Stainless Steel C-4 - Rubber Lined C-5 - Special (Kynar, PVC, Fluoroshield, etc.) C-6 - Carpernter 20 C-7 - Plastic C-8 - Fiberglass Reinforced Plastic	H-1 - Tinned Steel H-2 - 304Stainless Steel H-4 - 316 Stainless Steel H-9 - Polypropylene H-10 - Passivated 316 Stainless Steel H-12 - Glass Filled Polypropylene H-13 - Nylon	G-1 - Asbestos Substitute G-2 - Buna N G-3 - Neoprene G-4 - Plant Fiber G-5 - Teflon G-6 - Butyl Rubber G-7 - Buna N FDA (Tasteless,Odorless, Non-Toxic) G-8 - Natural Rubber G-9 - Viton G-10 - EthylenePropylene (EPM, EPR & EPDM) G-11 - Hypalon G-12 - Cork G-13 - Silicone

% Concentration		Temp. F	Filter Media	Container	Core	Gasket
Hydrogen Cyanide			F-9		H-9	
Hydrogen Fluoride			F-9		H-9	
Hydrogen Peroxide			F-7,9,20,21	C-2,6	H-2,4,9,12	G-5,9
Hydrogen Phosphide			F-9		H-9	
Hydrogen Sulfide(Dry)		150	F-9,15	C-1,2	H-1,2,12	G-5,6,10
Hydrogen Sulfide(Wet)		150	F-9,15	C-2	H-4,12	G-5,6,10
Hydroquinone		Note 3,8	F-1,2,9,15	C-2	H-2,4,9,12	G-5,9
Hypochlorous Acid			F-9		H-9	
Igepal			F-9		H-9	
Inks			F-19	C-2	H-1	G-5
Iodine			F-9	C-2	H-9	G-9
Insulating Oils - Askarel		Note 2	F-10	C-1	H-1	G-2,9
Insulating Oils - Petroleum Type			F-1,2,10,13	C-1	H-1	G-1,2,3,4,9,12
Isobutyl Alcohol (Isobutanol)		Note 3	F-1,2,6,15,17,18,21	C-1	H-1,13	G-1,3,4,5,6,9,10,11
Isopropyl Alcohol (Isopropanol)		150	F-1,2,6,9,15,17,20,21	C-1	H-1,12,13	G-1,3,4,5,6,9,10,11
Isophorone		150	F-2	C-1	H-1	G-1,5
Kerosene			F-1,2,6,9,15,18,19,20,21	C-1,2	H-1,2,4,9,13	G-2,4,5,6,9
Ketchup		70	F-2,9		H-9	G-2,5,6,9
Ketone Solvents		Note 2,3	F-1,2	C-1	H-1	G-1,5
Lacquer (Unpigmented)			F-1,2	C-1	H-1	G-1,4,5,6,12
Lacquer Thinner			F-1,2	C-1	H-1,2,4	G-1,4,5,6,12
Lactic Acid		Note 3,8	F-5,7,9,15,19	C-4,6	H-4,9,12	G-1,5,9
Lanolin			F-9		H-9	
Lard			F-1,2,6,9,15,19	C-2	H-1,2,4,9,13	G-2,5,10
Latex		Note 3,8	F-1,2,9,17	C-1	H-1,9,12	G,1,3,4,5
Lauric Acid			F-9		H-9	
Lead Acetate			F-6,9,15		H-9,13	
Lestoil			F-9		H-9	
Lime - Sulfur		70	F-2,9		H-4,9	G-3,5,6,9,10,13
Linoleic Acid		100	F-2,9,19	C-4	H-4,9	G-5
Linseed Oil		Note 2,8	F-1,2,9,15,19	C-1,2	H-1,9,12	G-1,2,3,4,5,9,11
Lithium Bromide	65%	200	F-1,2,9,17	C-1	H-1	G-3,5
Lithium Carbonate		70	F-9		H-9	G-5
Lithium Chloride		200	F-1,2,6,15	C-1,2	H-1,2,4,13	G-2
Lithium Hydroxide		70	F-2,9	C-2	H-1,2,4,9	G-2,5,10
Liquors Liqueurs			F-9		H-9	
Lube Oil			F-1,2,6,7,18,19,21	C-1,2	H-1,2,4,13	G-2,4,5,9
Lye			F-6,9	C-2	H- 2,4,9,13	G-5,6,10
Machine Oils			F-9		H-9	
Magenta Dye			F-9		H-9	
Magnesium Cabonate			F-9		H-9	
Magnasium Chloride	2%	70	F-1,2,6,9,15,19	C-2	H-4,9,13	G-2,3,5,6,9,10,13
Magnesium Hydroxide		70	F-1,2,9	C-2	H-4,9	G-5,6,9,10
Magnesium Nitrate			F-9		H-9	
Magnesium Sulfate		70	F-1,2,9	C-1,2	H-2,4,9	G-2,3,5,6,9,10,13

Chemical Compatibilities -Filter Media, Vessel Housing & Gasket Material

Filter Media:	Container Material:	Core Material & Band Ring for Bags:	Gasket Material:
F-1 - Rayon F-2 - Cotton F-3 - Acetate F-5 - Orlon (Acrylic) F-6 - Nylon F-7 - Glass Fiber F-9 - Polypropylene F-10 - Cranite (Fullers Earth) F-11 - Rayon Cellulose F-12 - Cotton Waste & Excelsior F-13 - Phenolic Resin Pleated Paper (718 size) F-15 - Polyester F-17 - Phenolic Resin Pleated (2 1/2" Dia.) F-18 - PCC F-19 RBC F-20 - Polymate F-21 - Advantage	C-1 - Steel C-2 - Stainless Steel C-4 - Rubber Lined C-5 - Special (Kynar, PVC, Fluoroshield, etc.) C-6 - Carpenter 20 C-7 - Plastic C-8 - Fiberglass Reinforced Plastic	H-1 - Tinned Steel H-2 - 304Stainless Steel H-4 - 316 Stainless Steel H-9 - Polypropylene H-10 - Passivated 316 Stainless Steel H-12 - Glass Filled Polypropylene H-13 - Nylon	G-1 - Asbestos Substitute G-2 - Buna N G-3 - Neoprene G-4 - Plant Fiber G-5 - Teflon G-6 - Butyl Rubber G-7 - Buna N FDA (Tasteless,Odorless, Non-Toxic) G-8 - Natural Rubber G-9 - Viton G-10 - EthylenePropylene (EPM, EPR & EPDM) G-11 - Hypalon G-12 - Cork G-13 - Silicone

% Concentration		Temp. F	Filter Media	Container	Core	Gasket
Magnesium Sulfite			F-9		H-9	
Maleic Acid			F-9		H-9	
Malic Acid			F-9		H-9	
Maple Syrup			F-9		H-9	
Mayonnaise		70	F-1,2,9	C-2	H-4,9	G-3,5,7,6,9,13
Melamine Resins		70	F-1,2,9		H-9	G-2,5,9
Mercuric Chloride	10%	70	F-1,2,9,15		H-9	G-2,3,5,6,9
Mercuric Cyanide			F-9		H-9	
Mercury			F-6,9,15	C-1,2	H-9,15	G-2,5,9,10
Mecurochrome			F-9		H-9	
Mercurous Nitrate			F-9	C-1,2	H-1,2,4,9	G-2,5,10
Methane			F-1,2,9,15,17,21	C-1	H-1,2,9,12	G-1,2,3,5,9
Methyl Acrylate		70	F-2,17	C-2	H-4	G-1,3,5,6,10
Methyl Alcohol		150	F-1,2,6,9,15,17,18,19,21	C-1	H- 1,12	G-1,2,3,4,6,10
Methyl Cellosolve		Note 2,8	F-1,2,9,17,18,21	C-1,2	H-2,6,9,12	G-5,6,10
Methyl Chloride			F-1,2,15,17	C-2,6	H-2,4	G-1,5,9
Methyl Ethyl Ketone		150	F-1,2,9,15,17,18,20,21	C-1	H-1,12	G-1,4,5,6,10
Methyl Isobutyl Carbinol			F-9		H-9	
Methyl Isobutyl Ketone		150	F-1,2,9,15,17,18,20,21	C-1	H-1,12	G-1,4,5,6,10
Methylene Chloride			F-1,2,15,17,18	C-2,6	H-2,4	G-1,5,9,10
Methyl Salicylate			F-15	C-2	H-2,4	G-5,6,10
Methyl Sulfuric Acid			F-9		H-9	
Milk		70	F-1,2,9	C-1,2	H-1,2,4,9	G-2,3,6,9,10,13
Mineral Oil			F-1,2,7,6,9,19	C-2	H-2,4,9,13	G-2,4,5,9
Mineral Spirits		150	F-1,2,9,15,19	C-1	H-1,12	G-1,4,5,6,10
Molasses		Note 2	F-1,2,17	C-1,2	H-1,2	G-3,4,7
Monoethanolamine		Note 3	F-1,2,20,21	C-1,2	H-1,2	G-5,6,10
Monoethanolamine	35%	200	F-1,2	C-1	H-1	G-6
Motor Oil			F-9		H-9	
Mustard		70	F-1,2,9	C-1,2	H-9	G-7,5,9
Naptha			F-1,2,6,7,19	C-1,2	H-1,2,4,13	G-5,9
Napthalene		Note-2,8	F-1,2,9,15	C-1	H-1,9,12	G-4,5,9
Napthalene		70	F-1,2,6,9,15,19	C-1	H-1,9,12,13	G-4,5,9
Natural Gas			F-1,2,9,17	C-1	H-1,2	G,2,3,5,6,9,10
Nickel Acetate			F-9		H-9	
Nickel Chloride	Any	Note 2,8	F-5,7,9,15,17	C-4,5,6	H-4,9,12	G-1,2,3,5,6,9,10
Nickel Chloride	5%	150	F-1,2,9,15,17	C-4,5,6	H-4,9,12	G-1,2,3,5,6,9,10
Nickel Nitrate			F-9		H-9	
Nickel Sulfate	Any	Note 2,8	F-5,7,9,15	C-4,5,6	H-4,9,12	G-1,2,3,5,6,9,10
Nickel Sulfate	5%	150	F-1,2,5,7,9,15,17	C-4,5,6	H-4,9,12	G-1,2,3,5,6,9,10
Nicotine			F-9		H-9	
Nictonic Acid			F-9		H-9	
Nitric Acid	10%	70	F-7,9,15	C-2	H-2,4	G-5,9,10
Nitric Acid	10%	200	F-9,19	C-2	H-2,4	G-5,9,10
Nitric Acid	20%	215	F-7	C-2	H-2,4	G-5,9,10

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Chemical Compatibilities -Filter Media, Vessel Housing & Gasket Material

Filter Media:	Container Material:	Core Material & Band Ring for Bags:	Gasket Material:
F-1 - Rayon F-2 - Cotton F-3 - Acetate F-5 - Orlon (Acrylic) F-6 - Nylon F-7 - Glass Fiber F-9 - Polypropylene F-10 - Cranite (Fullers Earth) F-11 - Rayon Cellulose F-12 - Cotton Waste & Excelsior F-13 - Phenolic Resin Pleated Paper (718 size) F-15 - Polyester F-17 - Phenolic Resin Pleated ($2\frac{1}{2}$" Dia.) F-18 - PCC F-19 RBC F-20 - Polymate F-21 - Advantage	C-1 - Steel C-2 - Stainless Steel C-4 - Rubber Lined C-5 - Special (Kynar, PVC, Fluoroshield, etc.) C-6 - Carpernter 20 C-7 - Plastic C-8 - Fiberglass Reinforced Plastic	H-1 - Tinned Steel H-2 - 304Stainless Steel H-4 - 316 Stainless Steel H-9 - Polypropylene H-10 - Passivated 316 Stainless Steel H-12 - Glass Filled Polypropylene H-13 - Nylon	G-1 - Asbestos Substitute G-2 - Buna N G-3 - Neoprene G-4 - Plant Fiber G-5 - Teflon G-6 - Butyl Rubber G-7 - Buna N FDA (Tasteless,Odorless, Non-Toxic) G-8 - Natural Rubber G-9 - Viton G-10 - EthylenePropylene (EPM, EPR & EPDM) G-11 - Hypalon G-12 - Cork G-13 - Silicone

% Concentration		Temp. F	Filter Media	Container	Core	Gasket
Photographic Solutions						
Ferric Cyanide Bleach		Operating	F-1,2	C-2,4	H-4,9,12	G-2,3
Acid Stop Bath		Operating	F-1,2,17,	C-2,4	H-4,9,12	G-2,3
Developer		Operating	F-1,2,17,	C-2,4	H-4,9,12	G-2,3
Fixer		Operating	F-1,2,17,	C-2,4	H-4,9,12	G-2,3
Rinse Water			F-3,17	C-2	H-2,4,9,12	G-2,3
Pickling Brine (Food)		Note 2	F-1,2,17	C-2	H-4	G-7
Pine oil		70	F-1,2,6,9,15,19	C-2	H-2,4,9,13	G-2,5,9
Phthalic Acid			F-9		H-9	
Picric Acid			F-9		H-9	
Palting Solutions						
Arsenic		150	F-1,2,9,17	C-1	H-12	G-1,5,6,10,11
Brass Cyanide		150	F-1,2,9,17	C-1	H-12	G-1,5,6,10,11
Bronze Cyanide		80	F-1,2,9,15,17	C-1	H-9,12	G-1,5,6,10,11
Cadmium Cyanide		100	F-1,2,9,15,17	C-1	H-9,12	G-5,6,10,11
Cadmium Fluoroborate		100	F-9	C-4	H-4,9,12	G-8
Chrome		145	F-5,9	C-6	H-4,12	G-5,9
Copper-Acid		120	F-9	C-4	H-4,9,12	G-8
Copper-Fluoroborate		170	F-9			
Copper-Cyanide		100	F-1,2,9,17	C-1	H-9,12	G-5,6,10,11
Gold Cyanide		160	F-1,2,9,15,17	C-2	H-9,12	G-1,5,6,10,11
Gold Fluoroborate		150	F-9	C-4	H-4,12	G-8
Indium Alkaline		80	F-2,9	C-1,2,6	H-4,12	G-1,5,6,10,11
indium Fluoroborate		80	F-9	C-4	H-4,9,12	G-8
Platinum		205	F-2,9	C-2	H-4	G-8
Potassium Bromide	Any	150	F-9,15	C-6	H-12	G-5,9,
Potassium Carbonate	10	180	F-1,2,9,15,17	C-1,2	H-2,4,12	G-1,2,3,5,6,9,10,11
Potassium Chloride	Any	Note 2,8	F-1,2,9,15,17	C-2,6	H- 4,9,12	G-1,2,3,4,5,6
Potassium Chromate	Any	Note 3,8	F-7	C-2,4	H-4	G-2,3,5
Potassium Cyanide	Any	200	F-2,6,9,15	C-1,2,6	H-4	G-1,2,3,5,6,9,10,11
Potassium Dichromate	Any	200	F-9,15	C-1	H-2,4	G-3,6
Potassium Ferricyanide		Note 3,8	F-1,2,9,15	C-2	H-4,9,12	G-5,9
Potassium Ferrocyanide	Any	200	F-9,15	C-2	H-4	G-5,9
Potassium Hydroxide	Any	100	F-9	C-1,2	H-2,4,9,12	G-1,5,6,10,11
Potassium Hydroxide	An	235	F-6	C-1,2	H-2,4	G-1,5,6,10,11
Potassium Iodide			F-9		H-9	
Potassium Nitrate			F-9		H-9	
Potassium Perborate			F-9		H-9	
Potassium Perchlorate			F-9		H-9	
Potassium Permanganate	5%	70	F-1,3,9,15	C-2	H-1,2,9,12	G-5,9
Potassium Permanganate	20%		F-9		H-9	
Potassium Persulfate			F-9		H-9	
Potassium Sulfate	5%	70	F-1,2,6,9,15	C-1,2	H-2,4,9,13	G-2,3,5,9,10
Potassium Sulfide			F-9		H-9	
Potassium Sulfite			F-9		H-9	

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Chemical Compatibilities -Filter Media, Vessel Housing & Gasket Material

Filter Media:	Container Material:	Core Material & Band Ring for Bags:	Gasket Material:
F-1 - Rayon F-2 - Cotton F-3 - Acetate F-5 - Orlon (Acrylic) F-6 - Nylon F-7 - Glass Fiber F-9 - Polypropylene F-10 - Cranite (Fullers Earth) F-11 - Rayon Cellulose F-12 - Cotton Waste & Excelsior F-13 - Phenolic Resin Pleated Paper (718 size) F-15 - Polyester F-17 - Phenolic Resin Pleated (2 1/2" Dia.) F-18 - PCC F-19 RBC F-20 - Polymate F-21 - Advantage	C-1 - Steel C-2 - Stainless Steel C-4 - Rubber Lined C-5 - Special (Kynar, PVC, Fluoroshield, etc.) C-6 - Carpenter 20 C-7 - Plastic C-8 - Fiberglass Reinforced Plastic	H-1 - Tinned Steel H-2 - 304Stainless Steel H-4 - 316 Stainless Steel H-9 - Polypropylene H-10 - Passivated 316 Stainless Steel H-12 - Glass Filled Polypropylene H-13 - Nylon	G-1 - Asbestos Substitute G-2 - Buna N G-3 - Neoprene G-4 - Plant Fiber G-5 - Teflon G-6 - Butyl Rubber G-7 - Buna N FDA (Tasteless,Odorless, Non-Toxic) G-8 - Natural Rubber G-9 - Viton G-10 - EthylenePropylene (EPM, EPR & EPDM) G-11 - Hypalon G-12 - Cork G-13 - Silicone

% Concentration		Temp. F	Filter Media	Container	Core	Gasket
Potassium Thiocyanate			F-1,2,15	C-2	H-4	G-1,2,5
Primol D			F-9		H-9	
Propane			F-1,2,15,19	C-1	H-1,2,9	G-1,2,3,4,5
Propargyl Alcohol			F-18			G-2,3,9,10,13
Propionic Acid		70	F-1,2,6,9,15	C-2	H-4,9,13	G-5
Propyl Alcohol (Propanol)		150	F-1,2,6,9,15,17,21	C-1	H-1,9,13	G-1,2,3,4,6,10
Propylene Carbonate		70	F-1,2	C-1	H-1	G-5
Propylene Dichloride			F-18,20			G-9
Propylene Glycol		70	F-1,2,6,9,18,20,21	C-2	H-4,9,13	G-2,5,9,10,13
Propylene Oxide	100%	50	F-1,2	C-2	H-2,4	G-5
Pyridine	100%	70	F-9,15	C-2	H-2,4	G-6,10
Resins			F-19	C-1	H-1	G-5
Rhodium Acid		150	F-9,15	C-4	H-4,9,12	G-8
Rice Bran Oil			F-9		H-9	
Rosin, Light			F-9		H-9	
Rum			F-1,2,17	C-2	H-2	G-2,3,7
Salt Water		Note 2,8	F-1,2,3,6,7,9,15,17,19,20,21	C-4	H-4,9,12,13	G-1,2,3,5,6,9,10,13
Salenic Acid			F-9		H-9	
Salicylic Acid			F-9		H-9	
Shampoo			F-9		H-9	
Shave Lotion		Note 2,8	F-1,2,9,15,17	C-1,2	H-1,2,9,12	G-3,4,7
Shellac		70	F-1,2,9	C-1,2	H-2,4,9	G-2,3,5,10
Shoe Polish			F-9		H-9	
Silicone Oil			F-9		H-9	
Silver Cyanide			F-9		H-9	
Silver Nitrate	30%	200	F-7,9	C-2	H-2,4	G-3,5,7,9,10,11
Silver Nitrate	Any	Note 2,8	F-7,9,15	C-2	H-2,4,9,12	G-3,5,7,9,10,11
Soda Ash		70	F-1,2,5,6,9,15,19	C-2	H-2,4,9,12	G-2,3,5,6,9,10,13
Soap Solution (Concentrated)			F-9		H-9	
Sodium Acetate		70	F-1,2,5,9,15	C-1,2	H-2,4,9	G-4,5,10
Sodium Benzoate			F-9		H-9	
Sodium Bicarbonate	Any	Note 2,8	F-1,2,9,15,17	C-1,2	H-2,5,9,12	G-1,2,3,5,6,10,11
Sodium Bisulfate		70	F-9,15	C-2	H-9	G-2,3,5,6,9,10,13
Sodium Bisulfite		70	F-9,15	C-2	H-9	G-2,3,5,6,9,10,13
Sodium Borate		70	F-1,2,9	C-2	H-2,4,9	G-2,3,5,6,9,10,13
Sodium Bromide		125	F-1,2,5,9,15	C-2,6	H-4,12	G-5,9
Sodium Carbonate	Any	Note 2,8	F-1,2,9,17	C-1,2	H-2,4,9,12	G-1,2,3,5,6,9,10,11
Sodium Carbonate	10%	180	F-1,2,15,17	C-1,2	H-2,4,12	G-1,2,3,5,6,9,10,11
Sodium Chlorate	Any	Note 2,8	F-7	C-2	H-2	G-5,9
Sodium Chloride	Any	Note 2,8	F-1,2,9,15,17	C-2,6	H-4,9,12	G-1,2,3,5,6,9,10,11
Sodium Chlorite	2%		F-9		H-9	
Sodium Chlorite	5%		F-9		H-9	
Sodium Chlorite	10%		F-9		H-9	
Sodium Chlorite	20%		F-9		H-9	
Sodium Cyanide		200	F-2,6,9,15,17	C-1,2,6	H-1,4	G-1,2,3,6,10,11

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Chemical Compatibilities -Filter Media, Vessel Housing & Gasket Material

Filter Media:	Container Material:	Core Material & Band Ring for Bags:	Gasket Material:
F-1 - Rayon F-2 - Cotton F-3 - Acetate F-5 - Orlon (Acrylic) F-6 - Nylon F-7 - Glass Fiber F-9 - Polypropylene F-10 - Cranite (Fullers Earth) F-11 - Rayon Cellulose F-12 - Cotton Waste & Excelsior F-13 - Phenolic Resin Pleated Paper (718 size) F-15 - Polyester F-17 - Phenolic Resin Pleated (2 1/2" Dia.) F-18 - PCC F-19 RBC F-20 - Polymate F-21 - Advantage	C-1 - Steel C-2 - Stainless Steel C-4 - Rubber Lined C-5 - Special (Kynar, PVC, Fluoroshield, etc.) C-6 - Carpernter 20 C-7 - Plastic C-8 - Fiberglass Reinforced Plastic	H-1 - Tinned Steel H-2 - 304Stainless Steel H-4 - 316 Stainless Steel H-9 - Polypropylene H-10 - Passivated 316 Stainless Steel H-12 - Glass Filled Polypropylene H-13 - Nylon	G-1 - Asbestos Substitute G-2 - Buna N G-3 - Neoprene G-4 - Plant Fiber G-5 - Teflon G-6 - Butyl Rubber G-7 - Buna N FDA (Tasteless,Odorless, Non-Toxic) G-8 - Natural Rubber G-9 - Viton G-10 - EthylenePropylene (EPM, EPR & EPDM) G-11 - Hypalon G-12 - Cork G-13 - Silicone

% Concentration		Temp. F	Filter Media	Container	Core	Gasket
Sodium Dichromate			F-9		H-9	
Sodium Ferricyanide			F-9		H-9	
Sodium Ferrocyanide			F-9		H-9	
Sodium Fluoride	Any	80	F-9,15	C-2	H-4,9,12	G-5,9
Sodium Hydrosulfide	45%		F-9	C-2	H-9	G-5,9
Sodium Hydroxide	Any	100	F-9	C-1,2	H-2,4,9,12	G-1,3,5,6,10,11
Sodium Hydroxide	Any	250	F-6	C-1,2	H-2,4,13	G-1,3,5,6,10,11
Sodium Hydroxide	1%	70	F-6,9,15	C-1,2	H-2,4,9,12,13	G-1,3,5,6,10,11
Sodium Hypochlorite	10%	200	F-5,9	C,4,5	H-4	G-5,9
Sodium Hypochlorite	Any	140	F-9	C-4,5	H-12	G-5,9
Sodium Hypochlorite	1/2%	200	F-2,9	C-2	H-2,9	G-5,9
Sodium Metaphosphate			F-9		H-9	
Sodium Nitrate	Any	Note 2,8	F-1,2,9,15,17	C-1,2	H-4,9,12	G-6,10,11
Sodium Perborate	1%	160	F-1,2,3,9,15,17	C-2	H-2,12	G-6,9,10
Sodium Phophate		70	F-1,2,6,9,15	C-2	H-2,4,9,13	G-2,5,6,9,10
Sodium Polysulfide				C-2	H-2,4	G-5
Sodium Silicate	Any	Note 2,8	F-1,2,9,17	C-1	H-1,9,12	G-1,2,3,4,9,10,11
Sodium Sulfate	Any	Note 2,8	F-1,2,9,15,17	C-2	H-2,4,9,12	G-2,3,6,9,10,11
Sodium Sulfide	40%	140	F-1,2,9,17	C-2	H-4	G-2,3,5,6,9,10
Sodium Sulfide	Any	Note 2	F-5	C-2	H-4	G-2,3,5,6,9,10
Sodium Sulfite			F-9		H-9	
Sodium Thiocyanate		Note 2,8	F-1,2,9	C-1,5	H-9,12	G-5
Sodium Thiocyanate	Any	70	F-1,2,9,15	C-1,5	H-9,12	G-5
Sodium Thiosulfate	Any	Note 2,8	F-1,2,9,17	C-2	H-4,9,12	G-1,2,3,5,6,9,10
Stannic Chloride	5%	70	F-1,2,5,6,7,9,15	C-4	H-9,13	G-2,5,6,9,10
Stannous Chloride	5%	70	F-1,2,6,9,15	C-1	H-4,9,13	G-2,3,5,6,9,10
Starch		70	F-1,2,9,15,19	C-2,4	H-4,9	G-2,3,5,6,9,10
Steam		220	F-2,5,6	C-1,2	H-2,4	G-1,5,9
Steam		200	F-2,5,6,19	C-1,2	H-2,4	G-1,5,9
Steam		275	F-5,6	C-1,2	H-2,4	G-1,5,9
Stearates		200	F-1,2,6,9,19	C-1,2	H-1,2,4,9	G-1,5,6,9,10,13
Stearic Acid	Any	200	F-1,2,9,15,17,18,19,20,21	C-2	H-2,4	G-1,2,3,5,6,10,11,13
Stoddard Solvents		70	F-1,2,6,9,15,18,19,20		H-9,13	G-2,5,9
Styrene			F-2,15	C-2	H-4	G-5,9
Sugar Solutions	Any	Note 2	F-1,2,9,17	C-2	H-2,4	G-7
Sucrose			F-9		H-9	
Succinic Acid			F-9		H-9	
Sulfamic Acid			F-9		H-9	
Sulfate Liquors		70	F-9		H-9	
Sulfur Chlorite		70	F-9	C-2	H-9	G-5,9
Sulfur Dioxide (Wet)			F-7,9,15	C-2	H-4,9,12	G-5,6,10
Sulfur Dioxide (Dry)			F-5,7,9,19	C-2	H-4,9,12	G-5,6,10
Sulfuric Acid	10%	70	F-5,7,9,15,19,20,21	C-4,5,6	H-4,9,12	G-1,5,9
Sulfuric Acid	35%	Note 3,8	F-5,7,9,15	C-4,5,6	H-4,9,12	G-1,5,9
Sulfuric Acid	60%	Note 3,8	F-5,7,9,15	C-4,5,6	H-4,9,12	G-1,5,9

Chemical Compatibilities -Filter Media, Vessel Housing & Gasket Material

Filter Media:	Container Material:	Core Material & Band Ring for Bags:	Gasket Material:
F-1 - Rayon F-2 - Cotton F-3 - Acetate F-5 - Orlon (Acrylic) F-6 - Nylon F-7 - Glass Fiber F-9 - Polypropylene F-10 - Cranite (Fullers Earth) F-11 - Rayon Cellulose F-12 - Cotton Waste & Excelsior F-13 - Phenolic Resin Pleated Paper (718 size) F-15 - Polyester F-17 - Phenolic Resin Pleated ($2\frac{1}{2}$" Dia.) F-18 - PCC F-19 RBC F-20 - Polymate F-21 - Advantage	C-1 - Steel C-2 - Stainless Steel C-4 - Rubber Lined C-5 - Special (Kynar, PVC, Fluoroshield, etc.) C-6 - Carpenter 20 C-7 - Plastic C-8 - Fiberglass Reinforced Plastic	H-1 - Tinned Steel H-2 - 304Stainless Steel H-4 - 316 Stainless Steel H-9 - Polypropylene H-10 - Passivated 316 Stainless Steel H-12 - Glass Filled Polypropylene H-13 - Nylon	G-1 - Asbestos Substitute G-2 - Buna N G-3 - Neoprene G-4 - Plant Fiber G-5 - Teflon G-6 - Butyl Rubber G-7 - Buna N FDA (Tasteless,Odorless, Non-Toxic) G-8 - Natural Rubber G-9 - Viton G-10 - EthylenePropylene (EPM, EPR & EPDM) G-11 - Hypalon G-12 - Cork G-13 - Silicone

% Concentration		Temp. F	Filter Media	Container	Core	Gasket
Sulfuric Acid	70%	Note 3,8	F-7,9,15	C-4,5,6	H-4,9,12	G-1,5,9
Sulfuric Acid	90+%	Note 3,8	F-7	C-4,5,6	H-4	G-1,5,9
Sulfuric Acid	Fuming	Note 3	F-7	C-4,5,6	H-4	G-1,5,9
Sulfurous Acid	5%	100	F-1,2,19	C-5,6	H-4	G-1,5,9
Sulfurous Acid	Any	200	F-5,7,9	C-5,6	H-4	G-1,5,9
Tallow Acid		70	F-9,19		H-9	
Tannic Acid	Any	100	F-1,2,9,15,17,19	C-2	H-2,4,9,12	G-1,2,5,6,9,10
Tannic Acid	Any	Note 2,8	F-7	C-2	H-2,4	G-1,2,5,6,9,10
Tartaric Acid			F-7,9	C-2	H-4,9	G-2,5,9,13
Tea			F-9		H-9	
Tetrachlorethylene (Dry)		200	F-1,2,6,7,19	C-1,2	H-1,2,4,13	G-4,5,9
Tetrachlorethane		70	F-1,2,6,7,9,15,19	C-2	H-2,4,13	G-9
Tetrathydrofuran			F-1,2	C-1	H-1	G-9
Tin Acid		150	F-9	C-4	H-4,9,12	G-8
Tin Alkaline		190	F-6,9	C-1	H-4,13	G-1,5,6,10,11
Tin Fluoroborate		100	F-9	C-4	H-4,9,12	G-8
Toluene	Any	200	F-1,2,5,6,7,18,19	C-1	H-1	G-1,4,5,9
Toluene Dilsocyanate		Note 3	F-1,2	C-2,5	H-4	G-5
Tomato Juice			F-9		H-9	
Transformer Oil			F-9		H-9	
Trichloracetic Acid			F-9		H-9	
Trichlorethane	Any		F-1,2,5,7,15	C-1	H-1	G-1,4,5,9
Trichloroethylene			F-1,2,6,12,13,15,18,19	C-1	H-1,13	G-1,4,5,9
Triethanolamine		140	F-1,2,9,15	C-1,2	H-1,2	G-1,3,5,10,11
Trisodium Phosphate		70	F-1,2,6,9,15,19	C-1,2	H-2,4,9,13	G-2,3,5,9,10
Tung Oil		70	F-9	C-1,2	H-2,4,9	G-2,5,10
Turpentine		Note 2,8	F-1,2,9,15,19	C-1	H-1,9,12	G-1,2,4,5,9
Ultrasonic Cleaning Solution			F-2	C-2	H-4,9,12	G-8
Urea	Any	200	F-15	C-2		G-5
Urea - Formaldehyde Resins		Note 3	F-1,2,9	C-1	H-1	G-1,4,5
Urine			F-9		H-9	
Vanila Extract		Note 2	F-1,2	C-2	H-1,2,4	G-5,7
Varnish		Note 2	F-1,2,15,19	C-1	H-1	G-1,4,5
Varsal			F-21			G-2,3,9,10,13
Vaseline			F-9		H-9	
Vinegar		100	F-1,2,9,17	C-1	H-2	G-1,3,5,6,9,10,11
Vinyl Acetate			F-2	C-2	H-4	G-1,5
Vinyl Chloride			F-7 (Must be Dry)	C-2	H-4	G-5
Water -Deionized, Demineralized, Distilled		100	F-3,6,9,15,17,20,21	C-2	H-2,4,13	G-1,2,5,6,7
Water - Drinking		Note 5	F-3,9,17,20,21	C-2,7	H-2,4,9	G-7
Water - Industrial		Note 2,5,8	F-3,6,7,9,15,17	C-1,2	H-9,12,13	G-1,2,3,6,10,11
Wax Crayon			F-9		H-9	
Wax Emulsions		Note 2	F-1,2,17	C-1	H-1	G-1,4
Wheat Germ Oil			F-9		H-9	
Whiskey And Wines			F-1,9,17	C-2	H-2,4,10	G-7

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Filter Media:	Container Material:	Core Material & Band Ring for Bags:	Gasket Material:
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% Concentration		Temp. F	Filter Media	Container	Core	Gasket
White Paraffin			F-9		H-9	
Xylene (Xylol)	Any	70	F-1,2,5,6,7,15,18,19	C-1	H-1	G-1,4,5,9
Xylene (Xylol)	Any	200	F-1,2,5,6,7,18,19	C-1	H-1	G-1,4,5,9
Yeast			F-9		H-9	
Zinc Acid		150	F-1,2,9,15	C-4	H-4,9,12	G-8
Zinc Bromide	3%	210	F-1,2,5,7	C-2,4	H-4	G-1,2,3,6,9,10,11
Zinc Bromide	Any	Note 3,8	F-5,7,9	C-2	H-4,9,12	G-1,2,3,6,9,10,11
Zinc Chloride	10%	70	F-1,2,5,9,15,17,18,20,21	C-2,4	H-4,9,12	G-1,2,3,6,9,10,11
Zinc Chloride	20%	175	F-5,9,15,18,20,21	C-2,4	H-4,12	G-1,2,3,6,9,10,11
Zinc Chloride	50%	200	F-15,18,20,21	C-2,4	H-4	G-1,2,3,6,9,10,11
Zinc Cyanide	Any	Note 3,8	F-1,2,6,9	C-1,4,5	H-4,9,12,13	G-1,5,6
Zinc Bright Cyanide		100	F-1,2,9	C-1	H-9,12	G-5,6,10
Zinc Fluoborate		130	F-6,9	C-4	H-4,13,12	G-8
Zinc Nitrate			F-9		H-9	
Zinc Oxide			F-9		H-9	
Zinc Sulfate	Any	Note 3,8	F-7,9	C-2,4	H-4,9,12	G-5,6
Zinc Sulfate	50%	70	F-7,9,15	C-4	H-4,9,12	G-5,6

Chemical Compatibilities-Notes

1. The chemical resistance of Filter fibers depends on the chemical concentration of the fluid, the operating temperature and the lenth of time to exposure. High density wound depth cartridges can tolerate somewhat higher temperatures than low density cartridges.
2. The maximum recommended continuous operating temperatures for the various filter media are as follows:

Viscose	250°F
Cotton	250°F
Cellulose Acetate	250°F
Cranite	250°F
Orlon	275°F
Nylon	275°F
Glass Fiber (Oil free)	750°F*
Porous Stainless Steel	800°F**
Polypropylene	200°F
Pleated Paper	250°F
Polyester	275°F

*Except in atmospheres containing steam. High temperature use of porous stainless steel filter cartridges is limited to suitable available gasketing material (not available from Commercial Filters).

3. Some chemicals have little or no effect on certain filter media at room temperature but data is lacking concerning the effects of these chemicals at elevated temperatures. Approval based on tests should be obtained before recommending the use of such filter media with these chemicals at temperatures higher than room temperature.
4. Oil-free glass fiber filter cartridges have been approved for the filtration of 30% and 90% hydrogen peroxide solutions prior to the immediate use of these fluids.
5. In general, the fiber filter Media except viscose and cotton are resistant to attack by microorganisms such as mold, fungi, bacteria, mildew, etc., and by insects. For this reason, polypropylene or cellulose acetate is preferred to viscose and cotton for the filtration of water.
6. In general, all filter media are considered to be nontoxic, but, because they impart various degrees of tastes to filtered fluids, it is recommended that only cellulose acetate, polypropylene, viscose or cotton be used for the filtration of fluids for human consumption
7. Cranite is not recommended for water based liquids of liquids containing gross amounts of water.
8. The collapse strength of plastic cores is reduced by increased temperature. Maximum recommended operating temperatures when using plastic cores are as follows:

Polypropylene	120°F
Glass Filled Polypropylene	180°F

At the above temperatures the collapse strengths will be approximately 70 psi. Continuous operating pressures should be higher than 50 psi.
9. All metal core types will meet or exceed temperature limitations of fibers with high temperature glass use stainless steel.
10.While polypropylene is chemically resistant to organic solvents, acids and alkalis, it should not be used with:
a. Strong oxidizing agents, i.e., 98% sulfuric acid, liming, nitric acid, Bromic acid.
b. chlorinated hydrocarbons, i.e., trichloroethylene, perchloroethylene, carbon, tetrachloride
c. Aromatic solvents , i.e., benzene, toluene, xylene,
d. At temperatures below 15 F
11. RBC-70°
F Polypropylene-70°
F Fiberglass-100° F
Metric Conversion Formulas
mm = inches x 25.4
°C = 5/9(°F -32)
k-Pa = psi x 6.895

Note : These data are for reference and may differ from application to application based on process parameter

Application Data Sheet For Liquid Filtration

FILTER CONCEPT®
www.filter-concept.com

Client : _____

Contact Person : _____

Address : _____

Phone : _____ Fax : _____

Email : _____ @ _____

Application : _____

Process Parameters

Material to be filtered : _____ P H : _____

Viscosity : _____ @ _____ Temp. Sp. Gravity : _____ @ _____ Temp

Flow Rate : _____ Suspended Solids in liquid : _____

Nature of contaminants : _____

Bulk Density of solid particulate : _____

Micron rating : _____ Efficiency : _____

Type of filter : ☐ Bag Filter ☐ Cartridge Filter ☐ Strainer ☐ Basket Filter ☐ Self Cleaning Filter

Configuration : ☐ Simplex ☐ Duplex • Nature of process ☐ Batch ☐ Continuous

Batch Volume _____

Working Temp : _____ Design Temp : _____

Working Press : _____ Design press : _____

MOC of vessel : ☐ SS316 L ☐ SS316 ☐ SS 304 ☐ MS ☐ Carbon Steel

If other please specify : _____

Material of O-Ring /Gasket : ☐ Neoprene ☐ Vioton ☐ Teflon ☐ Buna N

If other please specify : _____

End Connections : Flanged _____ NPT _____

MOC of pipeline : _____ MOC of storage vessel : _____

Allowable differential pressure _____

Design code : ☐ Good Engineering practice ☐ ASME design ☐ U stamp

Filter Concept Pvt. Ltd.
(An ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 ASME 'U' & 'UM', The National Board Of Boiler & Vessel Inspectors 'R' & 'NB' and CE Certified Company)

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Phone : +91-79-2754 1602, 2754 0069, Fax : +91-79-2754 0801
E-mail : info@filter-concept.com, WebSite: www.filter-concept.com

Application Data Sheet For Air Filtration

FILTER CONCEPT®
www.filter-concept.com

Client : _____

Contact Person : _____

Address : _____

Phone : _____ Fax : _____

Email : _____ @ _____

Application : _____

For Filter Bag Retrofit

Type of Bag House : _____ Bag House OEM : _____

No. of Compartment/bag : _____ Size : _____

Air volume : _____ Filter Media used _____

Static pressure blower available : _____ temperature _____

Total Filter Area : _____

Cleaning Method : _____ Pulse Jet ☐ Reverse Air ☐ Shaker ☐

Cleaning Pressure : _____ Off Line ☐ On Line ☐

Cleaning Frequency : _____

Air to Cloth Ratio : _____ Timer ☐ ▲P-regulated ☐

Continuous Operation : _____

No. of shut downs : _____ Yes ☐ No ☐

For Flue Gas application

Total Gas Volume Nm^3/hr : _____

Temperature °C : ☐ Continuous : _____ ☐ Peaks : _____

Dew Point(H_2O) : _____ Acid Dew Point : _____

Lime Addition : ☐ Yes ☐ No ☐ N/A

Gas Composition : H_2O : ____ CO_2 : ____ O_2 : ____

(vol%, ppm, mg/Nm^3) Cl_2 : ☐ NH_3 : ☐ SO_2 : ☐

Dust Load - _____ SO_3 : ☐ NOx : ☐ HCl : ☐

HF : ☐ Others : ☐

Dust Analysis

Dust Composition : _____

Dust Load g/m^3 : _____

Dust size : _____

Bulk Density : _____

Properties : ■ Hygroscopic ☐ Agglomerative ☐ Abrasive ☐ Explosive ☐ Other

PH-value : _____

- Required Conditions : _____

Outlet Dust Concentration : _____

Pressure Drop : _____ Others: _____

Filter Concept Pvt. Ltd.

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E-mail : info@filter-concept.com, WebSite: www.filter-concept.com

Application Data Sheet For Dust Collection System

FILTER CONCEPT®
www.filter-concept.com

Client : _____

Contact Person : _____

Address : _____

Phone : _____ Fax : _____

Email : _____ @ _____

Application : _____

Process Parameters

Air Volume to be Handled _____

Application / Brief Descriptions of Process _____

Static Pressure Available _____

Distance from Dust Generation Plant to Dust Collection Systems _____

_____

Dust Loading _____

Emission Level Required at Outlet _____

Working Temperature _____

Bulk Density of Dust Particle _____

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E-mail : info@filter-concept.com, WebSite: www.filter-concept.com

Application Data Sheet For Compressed Air Filtration

FILTER CONCEPT®
www.filter-concept.com

Client : _____

Contact Person : _____

Address : _____

Phone : _____ Fax : _____

Email : _____ @ _____

Application : _____

Process Parameter

Air Flow Rate : _____ (In cfm or $NM^3/hr.$)

Pipe Line Size : _____

Working Pressure : _____ kg/cm^2

Working Temperature : _____ ° C

Type of Filter Required : _____

(1) Particulate Removal Filter

(2) High Efficiency Filter / Moisture & Oil Removal Filter / Coalescer

(3) Carbon Filter

Suspended Particle Load : _____

Oil Contents at Inlet : _____

Oil Contents at Outlet Reqired : _____

Filtration Rating : _____

Material of Construction of Body : ☐ Carbon Steel ☐ SS 316 ☐ SS 304 ☐ SS 316 L ☐ Other _____

Allowable Pressure Drop across the Filter : _____

Preferred Design Cod e : ☐ Good Engineering Practice ☐ ASME Sec. VIII Div. I ☐ U stamp

End Connections : _____ (1) Flanged (2) Threaded (3) Tri Clover Clamp

Filter Concept Pvt. Ltd.

(An ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 ASME 'U' & 'UM', The National Board Of Boiler & Vessel Inspectors 'R' & 'NB' and CE Certified Company)

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E-mail : info@filter-concept.com, WebSite: www.filter-concept.com

Application Data Sheet For Gas Filtration

FILTER CONCEPT®
www.filter-concept.com

Client : _____

Contact Person : _____

Address : _____

Phone : _____ Fax : _____

Email : _____ @ _____

Application : _____

Process Parameter

Air Flow Rate : _____ (In cfm or $NM^3/hr.$)

Pipe Line Size : _____

Working Pressure : _____ kg/cm^2

Working Temperature : _____ °C

Type of Filter Required : _____ (1) Particulate Removal Filter

(2) High Efficiency Filter / Moisture & Oil Removal Filter / Coalescer

(3) Carbon Filter

Suspended Particle Load : _____

Oil Contents at Inlet : _____

Oil Contents at Outlet Reqired : _____

Filtration Rating : _____

Material of Construction of Body : ☐ Carbon Steel ☐ SS 316 ☐ SS 304 ☐ SS 316 L ☐ Other _____

Allowable Pressure Drop across the Filter : _____

Preferred Design Cod e : ☐ Good Engineering Practice ☐ ASME Sec. VIII Div. I ☐ U stamp

End Connections : _____ (1) Flanged (2) Threaded (3) Tri Clover Clamp

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Filter Concept Pvt. Ltd.

ISO 9001 : 2008
ISO 14001: 2004
OHSAS : 18001 : 2007

CE
ASME 'U' Stamp
ASME 'UM' Stamp

The National Board Of Boiler
& Vessel Inspectors 'R' & NB
Certified Company

Corporate Office

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Manufacturing Unit

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