

Bag Filtration

Bag filters tend to have the lowest equipment investment costs, and are generally tolerant of a wide range of process conditions, making them a good choice for a wide range of applications.

Careful consideration, when choosing a liquid filtration system, will offer numerous potential benefits. A wise filter selection can minimize process downtime, reduce or eliminate waste disposal costs, limit worker exposure to the liquid, reduce maintenance time and expense, and improve quality.

PP Bag fully welded filter bags come in a variety of needle felt materials: polypropylene (PP), Polyester (PE) and Nylon (NMO).

All seams are welded, rather than sewn, and combined with our positive sealing cast bypass free (polypropylene or polyester) welded rings, no process liquid can bypass through the needle holes. Our monofilament mesh bags are constructed of individual, twisted threads are woven with evenly distributed holes for better strength, perfectly suitable for accurate screening, straining and classify.

Bag filters can allow particles between 1 to 800 microns to get through the filter and there are many choices in between, it depends on what liquid you should filter.

All our bags are available with plastic collar, or with stainless steel ring.

Features:

- Easy to use
- Vent ports to ensure optimal filtration is achieved
- Top feed inlet and bottom outlet
- Excellent sealing due to the double O-ring
- The filter bag seals with a felt-covered Snap-Collar ring or plastic seal

Typical application

- Easy to use



- Waste water treatment
- R.O. pre-filtration
- Coolant filtration
- Cooling tower water
- Chemical filtration
- Carbon filtration

Standard specification

- Design pressure: 0 / 10 bar(g)
- Design temperature: 0 / 90 °C
- Maximum vapor pressure: < 0.5 bar(g)
- Filter housing material available in 304 or 316 stainless steel and Customise.
- Cover closing with hinged eye-bolts
- Top-feed cover with handle
- Bottom outlet / Customise
- Inlet/outlet connection available with threaded connections or DN50 flanges
- Height adjustable legs
- Standard electro-polish finish, Mirror Finish, Glass bid finish, Sand blasting, Matt finish
- Support basket in perforated stainless steel
- O-ring material: standard EPDM, other material on-request
- FDA compliant on-request

Customized requirements

We understand that our customer's facing complex processes and environmental requirements. There where a standard filter housing could not be sufficient, our engineers are able to design a custom made filtration solution.

Multi Bag filtration system

Multi Bag Filter Housings are used in high flow applications when minimizing downtime is of the utmost importance.

The Quick-Change clamps allow you to change bags quickly, while also having a high-pressure operation.

- **Quickest Turnaround** – Our Quick-Change bag change out mechanism allows the fastest bag change-out possible
- **No Bypass** – Bag sealing is guaranteed with our compression style bag clamps

- **Highest Capacity Available** – Up to 42 bags per vessel means higher flow rates and less downtime for bag changes
- **Ergonomic Design** – Low profile allows easy access and our spring-balanced lid can be opened with one hand
- **Flexibility** – accepts both #2 bags or pleated cartridges, alternate inlet & outlet size and orientation can be specified
- **Inventory Available** or made to order
- **ASME Option** available
- FSQC series bag filter vessels are rated for 150 psig working pressure and are available with ASME “U” Stamp
- On chart below: 03-03-03 [First 03 is the # of bags (3), second 03 is the inlet flange size (3”) and third 03 is the outlet flange size (3”)]
- Material of construction is S4 (304 SS), S6 (316 SS) or CS (carbon steel). [All carbon steel vessels are painted with epoxy primer] and Inconel, Hastalloy, Monel , Duplex Steel & etc...
- Vessel gasket as per suitable application.
- Vessel includes perforated SS bag support basket available with R (round) bottom for standard bags or F (flat) bottom for pleated bags
- TFI multi-bag filter housings are designed for use with #2 filter bags or pleated cartridges

