



Uncompromised  
**Quality.**

# FEIPL

## Duplex Basket Filter

### Manual, Automatic, Steam Jacketed and Non Jacketed

Duplex Basket filters are installed where continuous operation is required, where the quantity of impurities is large and the line cannot be shut down for clean out. When collected solids build up and impede flow, diverter valves permit transfer of fluid flow without interruption from one basket to another. In this manner since isolated, the dirty basket can be removed and cleaned. These are available with an option of a manual changeover and

automatic changeover of the valve in order to switch between on filter and the other. Duplex Basket filters are also available with automatic cleaning option as Duplex Auto Back wash filters where there is no need to remove the basket for the purpose of cleaning. These are also available with the option of a manual and automatic changeover of the valve.

#### We offer Duplex Basket Filter with..

- Twin 3 way valve design
- Sliding gate valve design
- Butterfly valve design
- 6 way cam type valve design

#### We offer Duplex Manual Changeover Auto Back Wash with..

- Twin 3 way valve design
- Sliding gate valve design
- Butterfly valve design
- 6 way cam type valve design

#### We offer Duplex Auto Changeover Auto Back Wash with.

- Twin 3 way valve design
- Sliding gate valve design
- Butterfly valve design
- 6 way cam type valve design

#### Multi Basket Filter with Common Header

##### Applications:

- Wastewater
- Spray Nozzle Systems
- Heat Exchanger Protection
- Cooling Towers
- Chemical Filtration
- Gas Filtration
- Fuel Oil System
- Deep Well injection
- Descaling Systems
- Lube Oil Systems
- Irrigation
- Paper Coating
- Refining



#### Duplex Auto Self Cleaning Filter-twin 3 way valve design

- Filter unit comprises of two filter chambers, which are connected to each other by means of Pneumatic Operated Three Way Ball Valve each at Inlet and Outlet.
- Liquid to be filtered enters through the inlet connection and passes through the Filter Element.
- Solids larger than the selected micron spacing are either retained on the outside of the filter element or dropped into the filter chamber sump
- Suitable for large volume and fine filtration up to 30 microns available with single or multi elements in body carbon steel, SS 304, 316, 316L or any other alloy steel material.

We are your  
**Quality Partners.**

# Duplex Basket Filter



## Duplex Filter with 6 way Cam Type valve

- Has two number filter chambers with SS filter baskets.
- These are connected by cam type of valve assembly to keep one filter in operation and other isolated for maintenance.
- If required both filters can be operated simultaneously.
- Seats of the valve disc are changed over from one filter to the other by manual movement of hand wheel provided on top of the valve body.



Duplex Filter with Auto Changeover

## Duplex Filter with Sliding Gate Valve Design - header type

- It consists of two filters connected with two headers with sliding gate valve disc which is connected with threaded shaft and shaft is connected with an electrical actuator.
- There will be a differential pressure switch provided at the filter and normally one filter will remain in operation and one will remain standby.
- As differential pressure reaches set limit, D. P. Switch will give a signal through control panel to actuator and the changeover will take place from choked filter to the clean filter.

## Duplex Changeover with header type butterfly valve design



## Filteration Engineers

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## Duplex Cast Basket Filter

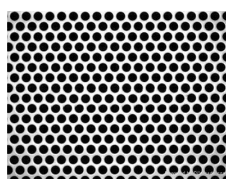
- No down time as no shut down required for element cleaning.
- Available in Cast Iron and Cast Steel with Sliding Gate valve design.
- Integral changeover valve for continuous operation.
- Design permits basket removal and cleaning without interruption of flow.
- Very compact unit for its size with a low profile, ideal for tight installation where space is a problem.

## Wire Mesh



Woven wire cloth with a perforated backing sheet, for strength, is available for a finer degree of filtration. Wire cloths are available for particle retention as small as 10 microns. Lined baskets are fabricated with special care so as to prevent debris from passing by.

## Perforated Plate



It is the most commonly used media for basket type filters and strainers available in perforation sizes of 1mm to 25mm diameter depending on the degree of filtration required and the size and type of filter. Perforations are normally made on a staggered pattern for maximum open area and strength.

## Wedge wire



Media of wedge wire construction are available where additional strength is required for fine filtration and for back wash type of filters. These avoid collapsing of the media when flow is reversed for cleaning. Slot widths are available from 30 micron to 3mm opening.

Available in all sizes and different material of construction required as per application and process condition.

