

Duplex Basket filter

The filter unit comprises of two filters chamber which are connected to each other by means of three way ball valves. The liquid to be filtered enters through the inlet connection and passes through the specially engineered wedge wire element with the flow being outside to inside. Solids larger than the selected micron spacing are either retained on the outside of the filter element or drop into the filter chamber sump.

Duplex strains are designed for using in fluid handling systems where the flow can't be shut down for filter cleaning. The duplex filters ensure complete removal of any type of foreign particles from the system.

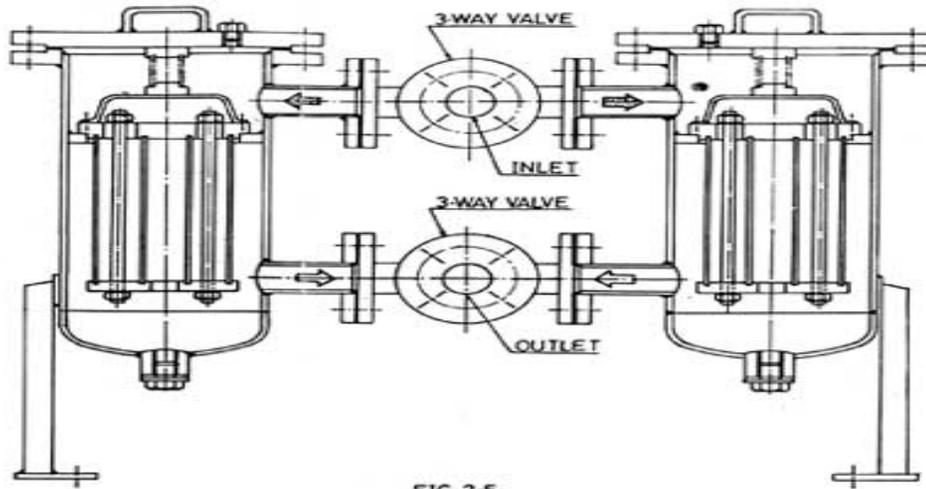


FIG. 2-5

Principles:

When one basket becomes full is switched to other basket. The first basket is removed cleaned and replaced.

Working:-

The duplex strainer system usually consists of two separate strainer baskets housed. The system also contains a valve handle placed between the two baskets to divert the flow of liquid to one strainer while the other is being cleaned.

Operations:-

Basket strainers feature top removal of the filter screen. The screen is in the form of a basket with a lifting handle, so that all particulate captured and retained by the screen can be easily removed for disposal. They are intended for applications where large amounts of solids particulate are expected and where the clean – out will be frequent.

Where fine filtration is required, the basket is replaced by cartridge filters. During cartridge cleaning or change out, the housing can be cleaned by opening the lower plug.

Applications:-

Where continuous operation is required and the line cannot be shut down for cleaning duplex basket strainer can be used. Applications where continuous filtration is absolutely necessary.

Industries Serves:

- Chemicals & Petrochemicals: Solvents, solutions, chemical filtration, acids, bases
- Food & Beverage: bottled water, beers, wines, flavors, polishing, clarification
- Health Care & Pharmaceuticals: Membrane filtration, ophthalmic, oral medicines, serum
- Industrial processes: clean water, removal of carbon
- Paints & Coatings: paints, coatings
- Industrial water treatment
- Electronics: High purity water, photo resists
- Cosmetics: Alcohols, creams, lotions, essential oils, mouthwashes

Advantages:

- Superior filtration area
- Can be custom built
- Continuous usage during basket change-out
- Debris collects away from the process stream

Disadvantages:

- Higher cost
- Significant size and weight.