



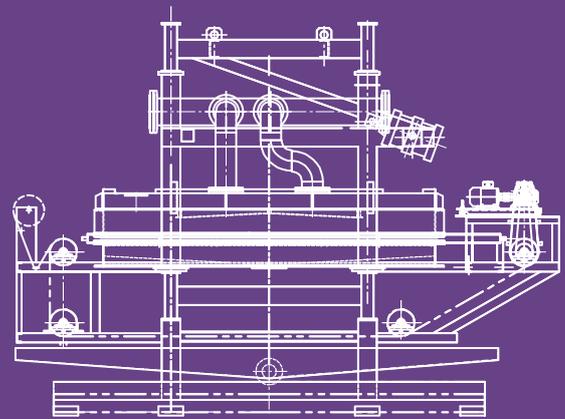
PRESSURE FILTERS

Pressure Filtration is the process of separating a suspended solid such as a precipitate from the liquid in which it is already suspended by straining it – under pressure – through a porous medium that can be penetrated easily by liquid.

FLATBED PRESSURE FILTERS

Flat Bed Pressure Filtration Systems are used for filtration of grinding / honing / super finishing coolant from a group of machines, all of which use the same coolant. The contaminant is of a powdery / particulate form.

The Flat Bed Pressure Filtration Systems is a highly evolved form of the paper band filtration system. The Flat Bed Pressure Filtration System uses a lower foot print per LPM filtered / clean coolant throughput, as also reduce the filtration medium consumption per unit weight of contaminant removed.



▲ Flatbed pressure filters

WORKING

The contaminated coolant from a group of machines is typically collected from each machine in underground coolant trenches, and flows by gravity to the flat bed pressure centralized filtration system.

The contaminated coolant is fed through the filtration medium under positive pressure by the transfer pump through the Top Shell by opening the actuated valve. The contaminated coolant is discharged onto a diffuser, to ensure even flow of the contaminated coolant onto the filter medium. The contaminants in the coolant are blocked by the filter medium above the filter medium and form a contaminant cake. The clean coolant flows past the medium into the clean coolant chamber below the filtration medium.

FEATURES

- ♻ Lower foot print per liters filtered dirty oil
- ♻ Reduce the filtration medium consumption per unit weight of Dirt removed.
- ♻ Back washable Nylon and SS can be used to reduce consumable.
- ♻ Totally automated PLC.
- ♻ Filter media can be changed.
- ♻ Can use with precoat media for very fine filtration level.
- ♻ Winding arrangement is provided in exit end of filter.
- ♻ Dry dust is receiving after indexing.

APPLICATION

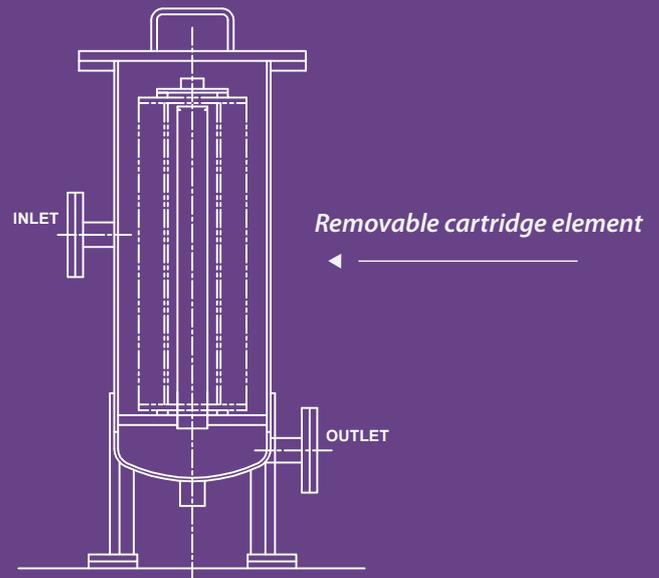
- ♻ Steel Grinding.
- ♻ Cast Iron Grinding.
- ♻ Honing.

REMOVABLE CARTRIDGE ELEMENT

Pressure filters housing are pressure vessels in which cartridge filters / elements are assembled. These elements can be of various micron rating from 1 micron to 100 micron and suitable different type of fluids like water based emulsion, cutting oils or washing fluids.

The filter housing are manufactured in carbon steel or stainless steel and tested for 2 times the working pressures.

- ☼ Dirty fluid inlet is connected to inlet of the housing.
- ☼ Fluid passes through cartridge.
- ☼ Dirt is trapped in the cartridge.
- ☼ Clean fluid comes out from outlet flange.



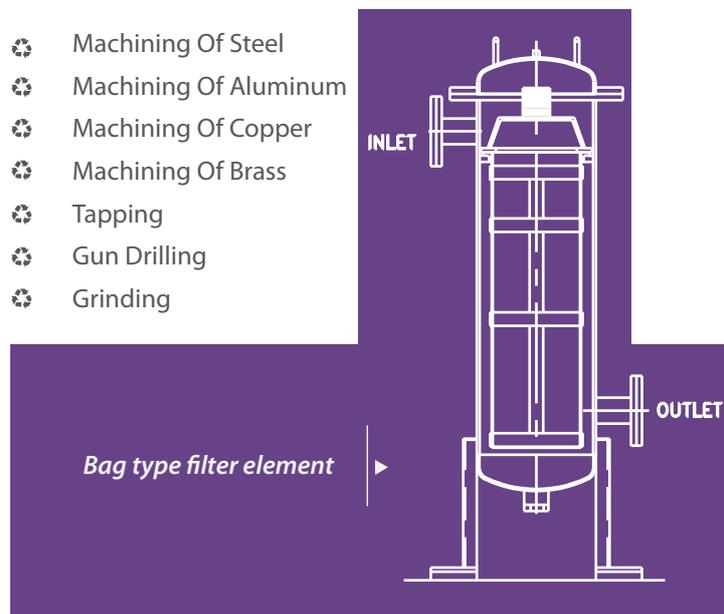
- ☼ A pressure switch gives an indication when the cartridge chokes.

FEATURES

- ☼ Very compact design, Multiple modules available
- ☼ Same housing can handle different types of cartridges.
- ☼ Pressure sensor automatically indicates choking.
- ☼ Easy removal and handling of lids make it easy for replacement and maintenance
- ☼ Can be connected in parallel for higher flows and series with cartridges of different filtration level
- ☼ Filtration level : 1 micron to 100 micron
- ☼ Cartridge type : Disposable , Washable , PP , SS304
- ☼ Sizing: 1 element to 36 elements per housing.
- ☼ Filtration capacity: 20 l/min to 1200 l/min per housing.
- ☼ Used in series for larger filtration rates.

APPLICATION

- ☼ Machining Of Steel
- ☼ Machining Of Aluminum
- ☼ Machining Of Copper
- ☼ Machining Of Brass
- ☼ Tapping
- ☼ Gun Drilling
- ☼ Grinding



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