

Flat Bed Pressure Filter FBPF



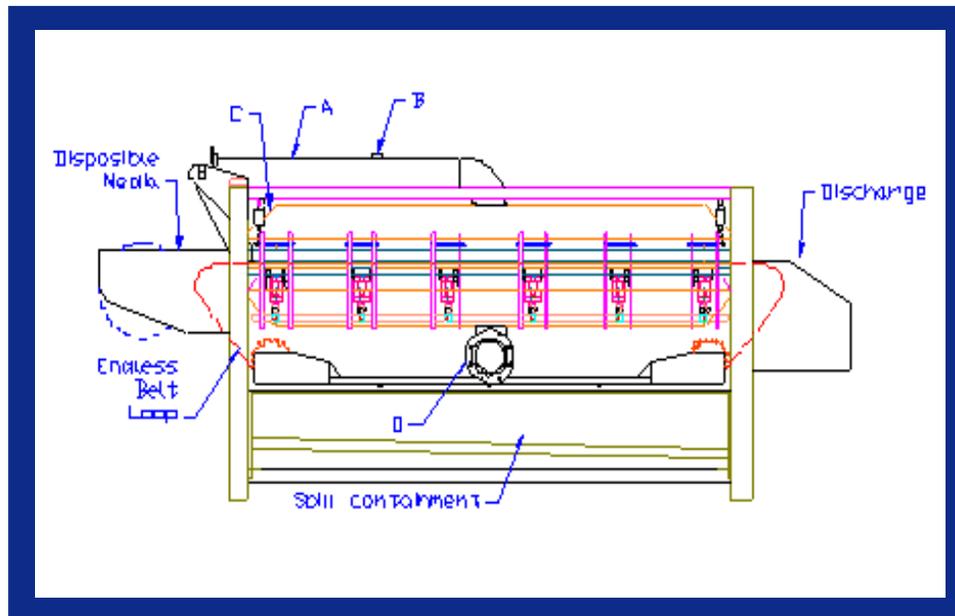
- Positive seal eliminating by-pass
- Exclusive double seal arrangement
- Enhanced tool performance
- Higher finish tolerances and quality
- Double containment construction
- Completely automatic
- Molded in filter / carrier belt seal
- O-ring upper seal
- Entire seal perimeter visible for inspection (with guards removed)
- Endless options of commercially available disposable media and woven belt configurations

Applications

- Polish filter
- Stand alone filter
- "In-line" pressure filter
- Grinding: steel, aluminum, cast nodular iron, ceramics
- Machining: aluminum, cast nodular iron, steel, brass
- Honing and final test stand run-off



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Main component description: (single flat bed scenario)

- A. Supply pipe from dirty receiving tank supply pump is equipped with an auto on-off control valve.
- B. A blow-down air supply line with control valves connects to the filter supply pipe just up stream from the filter.
- C. A "Filter Blinded Vent Line" with control valve is installed in the filter dome in the event filter septum is blinded over.
- D. Discharge pipe from the lower shell of the FBPF run's unrestricted to the clean tank.
- E. Flow from the filter to the clean tank in excess of that required by the machine tools (approximately 10%) is overflowed back to the dirty supply tank.

Sequence of Operation

1. Dirty supply pump is turned on and the on-off valve to the flat bed is opened to allow flow into the filter, through the septum, and to the clean tank.
2. When a predetermined pressure differential across the septum (inlet pressure on the upper shell) is achieved, the on-off valve to filter is closed.
3. The blow-down air valve to filter is opened for a period sufficient to remove all the fluid from filter and "dry" the filter cake, this can be a timed function with "low pressure" "proof" that the vessel is empty.
4. After blow down is complete, the vessel lid is raised and the filter belt is indexed and washed, or in the case of disposable media, the "spent" media is indexed out of the filter, and the filter lid is lowered and clamped, the on-off valve is opened and the filter is back on-line.
5. For shut down, the filter is put through an immediate blow-down cycle and the system is then shut down.

Maintenance

With Henry's exclusive design, no matter what the task, accessing the pressure chamber is as easy as disconnecting inlet and electrical, then lifting and removing the lid. Belt exchange is simply from old to new, whether replacing the entire belt or just a damaged segment.