



DRUM FILTER MANUAL

Type of Treatment:

Disposal of solid materials in suspension in liquids by filtration.

Working Principle:

Afilter.nl, self-cleaning mechanical filters. Liquid to be filtered, entering on the side of the drum, is filtered through filter grid. Filtration of the water level difference inside and outside of the drum due to gravity, slowly rotating around its own drum while flowing through the filter solid particles and other pollutants out of the inner surface of drum sticks. During rotation, the particles from the surface with the help of high-pressure spray nozzles cleaned and collected in a tray. This process prevents the degradation of the soft organic particles and increases the efficiency of the filter.

Using a flexible mechanism for easy and secured around the cylindrical drum of stainless steel or corrosion resistant to sea water and polypropylene (PP) filter screen, removing the supports can be easily changed. Drum motor is controlled by a level control system.

Voltage between phase sequence or phase changes (low or high), not to cause any damage to the system for 10 sec. stop in and give an alarm is provided.

All kinds of all electric motor connected to the system etc.. individual electrical components such as electrical leakage grounding and earthing of the filter housing is also provided.

Filter system with the help of sensors, flood, water flow volume-increase or decrease the pollution load automatically depending on the work, as well as timers, sensors are connected to the system via the system's perception of how much time he will work to ensure the system is available again.

Thus, the system will check continuously without the need for a personnel system itself, depending on how long the work, and the water level changes are done to protect the system itself.

Accordingly, since it needs the personnel work and power recovery and recycling of electrical power provided.

Automatic system

- Protection for electrical instrumentation and control, and emergency response of different engine sensors.
- Level sensors to control the levels
- Timer
- Preostat system for setting and control of the pumping system.
- Preostat system for setting and control of the drum system.
- Electrical connections of the various uses for power circuits and their assistants.
- Phase change and the voltage drop or rise against the phase circuit breaker,
- The whole system is electrically controlled via dashboard light and sound (alarm) control system provides the desired properties of the system.
- Than the specified flow rate falls below the pump is not running automatic cleaning system 15-30 sec. After the stop and the alarm and alert system is provided.
- If no load on the system will be reduced due to high drum speed 15-30 seconds again. stop himself after receiving a warning and alarm is provided.
- The system will even work if the chain breaks Drum gearmotor 15-30 sec. and the alarm will automatically stop itself again in the warning is provided to give.
- Screen (filter size), only the drum needs to be replaced manually by bringing the system to the electrical panel manual control and ensuring the screen to disable the entire system of replacing give safe provided.

Connection

1. Filter position Figure-1 in which position it is perpendicular to the flat surface so that the surface mounting pedestal providing and the direction of arrow as shown in the input read and output in the direction of the outlet pipe connecting.

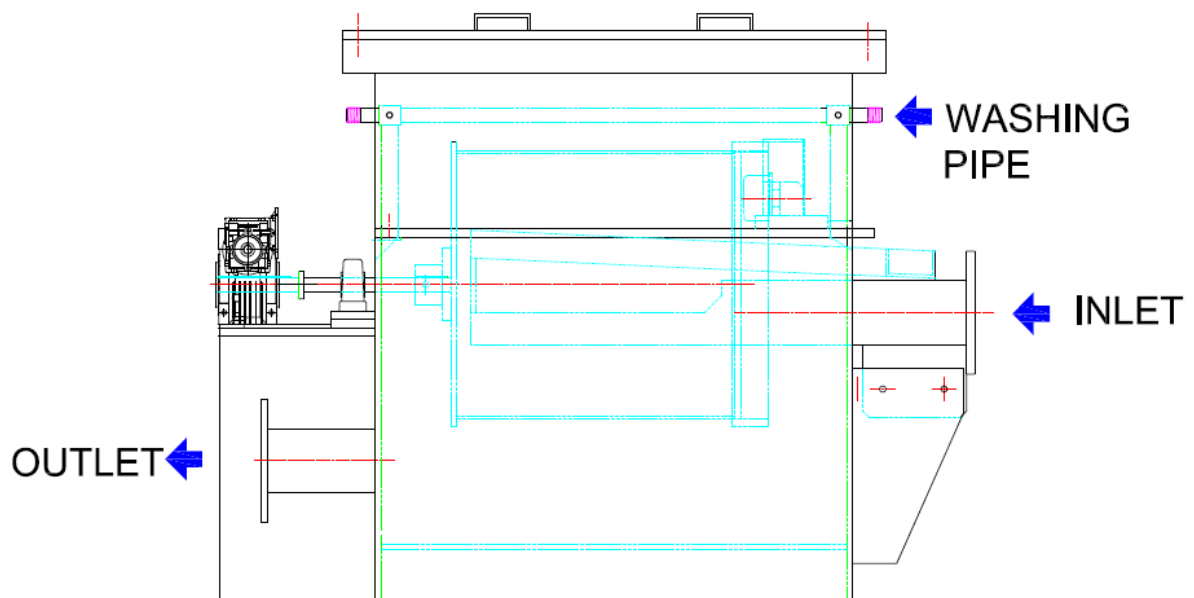


figure-1

2. It make assembly connection with only inlet and outlet eith work site pipeline.
3. Control of pipeline bolts.
4. It make change screen with bolt. (figure-2)



figure-2

5. It make not a assembly connection with washing pipe
6. It make assembly electrical connection according to electrical design drawing.
7. If pressure nozzles are engorged, it make open on nozzle with needle (figure-3)



figure-3

8. Drum rotate direction is anticlockwise direction and arrow direction (figure-4).



figure-4

Working

1. System of electrical inlet 380V,50Hz and outlet to system 380V,50Hz.
2. It is open near the main control switch (B) and made ON position.
3. F1,FL1,FL2,FL3,FL4,FL5 main fuse are ON position.
4. Q1 and Q2 motor protection are ON position.

Automatic Working

1. Attention, emergency buttons should be close.
2. Water level should be normal level and crash on the undermost level sensor.
3. If water level is not crash on the undermost level sensor, motor is not work.
4. If water level is crash on the undermost level sensor, B1 (automatic 0 manual) buton is position to automatic and system is work.
5. If water is lower than normal position of system working and if this water level is not to normal level in 5 sec., system should be stop.

Manual Working

1. Manual working buton is use only change of screen.
2. B1 Buton (automatic 0 manual) is position to manual.
3. If B1 buton is position to manual, pump is not work.
4. If put on the B2 buton, recuder motor is work on only as long as put on B2 buton.

Attention

1. Attention, pump and drum rotation position.
2. If drum rotation position is change, system is not clean and life time should be short.
3. If pump rotation position is change, system is not clean and pump is not work and life time should be short.
4. Attention, if pressure nozzles is stop, nozzles should be clean with needle.