

Automatic Backwash Disc Filter

■ PRODUCT DESCRIPTIONS

Automatic disc filter system with disc filtering element(as below) with 2" / 3" / 4" backwash valves, air valve, manifolds, controller. Easy to install. Automation available in 220V.

*Disc filtering elements are composed of a set of platters with grooves on both sides. The intersection points formed by the grooves' edges will intercept the solids of the water.

*Each filtration module locked by stainless clamps, which is a plastic-injected shell made by highly pressure-resistant polyamide combined reinforced glass fiber materials.

* Filtering frame is a complicated and precised telescopic cylinder structure, which is formed in a single injection.

Hydraulic action components are inside the excellently sealed cylinder structure, effectively prevented clogging failure and prolonged the service life.



Advantages

- Fully automatically continuous on-line self cleaning; low water consumption; Low pressure loss.
- Optimizes the performance and minimizes the frequency of maintenance.
- Maximum saving of water with efficiency in backwashing.
- Modular configuration allows design according to customer preference or space availability.

■ WORKING PRINCIPLE



Under this condition, turbid water flows through the element, which are tightly pressed together by the spring and hydraulic forces. So the particle trapped in the laminated cross points while the filtered water flows out.

When a certain pressure difference or time arrived, the system automatically enters the back washing state. The controller control valves to change the flow direction, the recoil pressure tightens the spring to release the discs. Then the nozzle located on the core pillar jets along the tangent line, and the discs rotate to flush out the particles.