



DANGO & DIENENTHAL

Filtertechnik GmbH

Backwash Drum Filter Type RTF

(Legal Protection of Registered Designs, AZ: 20 2009 002 585.3)



Eliminates solid contaminations out of cooling-, process- and brackish water systems by retaining the contaminates on the surface of a specially constructed slotted sieve or wire cloth element. The automatic backwash of the filter starts either after reaching a defined differential pressure or time-controlled. During the backwash process the water flows opposite to the filtration direction from outside to inside against atmospheric pressure. The backwashing cleans the strainer without interrupting the filter process.

Technical Data:

filtration fineness:	$\geq 5 \mu\text{m}$
filter throughput:	5 – 4000 m ³ /h
operating pressure:	$\geq 1,5 \text{ bar}$
material of filter housing:	carbon steel, stainless steel, glass fibre reinforced plastic

Slotted Sieve:

- sturdy design due to welded triangle rods
- different stainless steel materials
- filtration fineness $\geq 50 \mu\text{m}$



Wire Cloth:

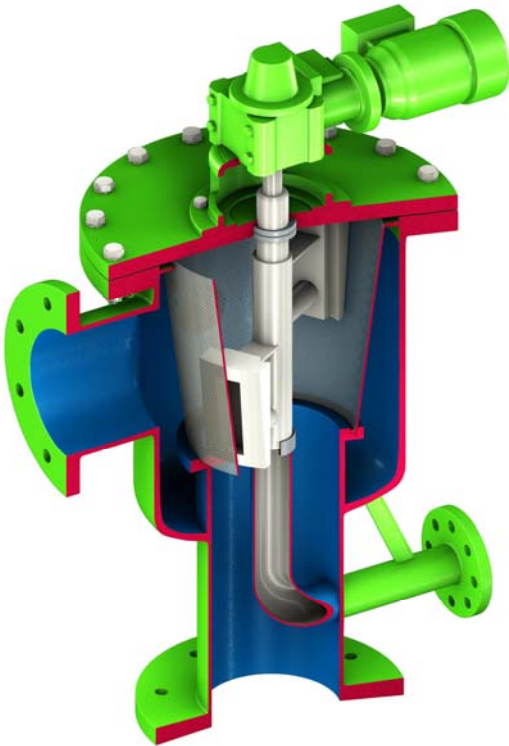
- sturdy “sandwich” construction (inside wire cloth, outside supports)
- different stainless steel materials
- filtration fineness $\geq 5 \mu\text{m}$



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Operation of RTF



Filtration:

Contaminated liquid enters the filter through the lower inlet flange. The liquid passes the slotted sieve or wire cloth from inside to outside and deposits the contaminations on the inside of the filter element surface. The cleaned liquid then leaves the filter through the lateral outlet flange.

Backwash:

After reaching a defined differential pressure or time-interval the backwash valve, which is installed in the backwash pipe, will be opened automatically. Now an atmospheric pressure is inside the backwash pipe and also in the rotating backwash-shoes. Therefore the cleaned liquid flows opposite to the filtration direction into the backwash-shoes. The deposited contaminations will be carried out with the backwash stream. During the backwash process the backwash-shoes rotate over the whole filter element surface.

Advantages of RTF

- 100 % cleaning of the whole filter surface
- high backwash speed (up to 10 m/s)
- filtration fineness of 5 μm possible
- chemical resistance due to housing materials
- very sturdy design