HYDRO FIL®
Flange filter with full-automatic backwash
Type: RSF-A-100

Application
Backwash filter with flange connection for filtration of drinking and process water with special filter elements for protection of water pipes. Design according to DIN EN 13443-1 and DIN 19628.

Design
The filter becomes installed directly after the input water meter (house water meter).
Mainly suitable for greater throughputs e. g. in residential buildings or the industry.
Subsequent systems and facilities get protected through the application of a backwash filter which means prevention of malfunctions and corrosion usually caused by foreign particles like rust, sand etc.
The backwash filter is equipped with flanges according to DIN 2533. The counterflanges for the integration into the pipeline are to be provided by the customer.
Filter elements and hydraulic backwash systems are made of plastic. The filter elements have to be cleaned regularly through backwash.
The backwash takes place automatically. Each filter cup is equipped with a solenoid valve including integrated electronic with variable time-/backwash impulse automatic. LD displays for indicating voltage and function. Adjustable are backwash intervals (10 min. – 100 days), backwash impulses (5 – 15) and backwashing time.
Setting ex works is 30 days / 5 impulses / 20 seconds.
As protection in case of a power failure the solenoid valves will close automatically. Additional manual release buttons for manual backwashes.
The supply of the water installation with filtered water is ensured during the backwash process via the remaining filter cups.
The backwash protective filter is only suitable for a horizontal installation into piping system.

Scope of supply
HYDRO FIL® backwash flange filter consisting of:
- 1 x filter housing with flanges (DIN 2533) and filter cups made of red brass
- 2 x pressure gauges with position indicator (display range 0 – 16 bar)
- backwash filter elements with hydraulic backwash system made of plastic (for each filter cup)
- solenoid valve G 1/2” – currentless closed (for each filter cup)
- electronic with variable time-/backwash impulse automatic in splashproof plastic housing for the control of the backwash intervals including shockproof plug and 1.5 m power cable (for each filter cup)
- 1 x operation manual

Notes / Installation conditions
- Technical data and general technical standards as well as the local installation conditions must be observed.
- Installation of backwash protective filter according to DIN 1988 part 2.
- The ambient temperature and possibly occurring radiation heat may not exceed 40°C.
- The installation area has to be frost-resistant.
- The installation site has to be free from solvent, colorant, varnish and chemical vapours.
- A drain (at least DN 50 – with odour trap) must be provided for backwash water.
- Protective power sockets (230 V / 50 Hz) must be provided in close vicinity to the filter (amount is depending on number of electronics)

Accessories
Manifold for discharge of the backwash water (tubing connection 1/2“)
- RSF-A DN 65
- RSF-A DN 80
- RSF-A DN 100

Art.-Nr. 700.830
Art.-Nr. 700.831
Art.-Nr. 700.832
### HYDRO FIL® RSF-A-100

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**Water**: PN 16

**Operating pressure**: bar 1.5 - 16

**Water-/ambient temperature max.**: °C 30 / 40

**Mesh size**: µm 99 / 128 (other mesh sizes on request)

**Flow capacity**: m³/h 40 / 50 / 60

**Filter cups**: 2 / 3 / 4

**Mains voltage**: 230 V / 50 Hz

**Power (backwash automatic)**: W 2 x 8 / 3 x 8 / 4 x 8

**Installation length L (including screw fitting)**: mm 240 / 370 / 430

**Total height H1**: mm 630 / 640 / 650

**Installation height H2 (from pipe centre)**: mm 400

**Installation depth T (from pipe centre)**: mm 135

**Ground clearance (at least)**: mm 390 / 400 / 410

**Weight (ca.)**: kg 26 / 36 / 47

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