

# Pressurized Automatic Backwash Screen Filters, the FX series

## Models : FX 30 , 60 and 100

### Applications

Industry : nozzle protection, pre-filtration, heat exchanger protection, sump and tank cleaning, etc...

Agriculture : irrigation water filtration...

Water Treatment : pre-filtration, cooling- and heating water filtration.



### Working Principal

The FX filters have a stainless steel filter element which is cleaned automatically by rotating shoes. The shoes are attached to an axle driven by an electrical motor.

Standard filter element : 80 - 800 micron.

Main flow enters the filter element from inside and flow through filter towards the perimeter of the filter housing. Larger particles than the filter element openings, are retained and will be washed away when the filter backwash. The backwash cycle starts when :

- a) the pressure differential across the filter element has reached a certain value.
- b) the time lapse between time settings has been reached.

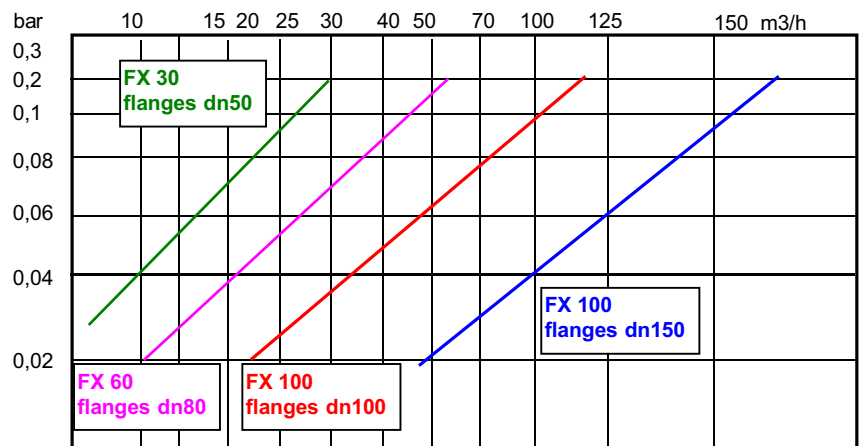
The purge valve will open and create an inverse flow through the filter element to atmosphere via the cleaning shoe. The three cleaning shoes cover each a limited part of the filter element and rotate.

During the cleaning cycle the whole filter surface will be covered and because of the limited flow required for backwashing, there is no interruption of the main flow, important for continuous operation of the process.



the electrical motor rotates the cleaning axle

flow / pressure loss diagram



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## Technical Data and Dimensions

MODEL	inlet flange	outlet flange	purge valve	weight in kg	flow maxi m3/h	filter area cm2	purge flow	A	B	C	D	E
FX 30	dn 50	dn 50	3/4"	100	50	1300	5m3/h	590	880	440	420	150
FX 60	dn 80	dn 80	3/4"	120	100	2700	10m3/h	590	1030	590	420	150
FX100	dn100 or dn 150	dn100 or dn 150	1"	140	150	4000	15m3/h	590	1180	740	420	150

All dimensions in mm

- \* Max. operating pressure : 10 bar; for higher pressures, contact factory
- \* Min. operating pressure : 2 bar
- \* Contact us regarding maximum flow for a certain filtration level
- \* Filter Elements : mesh screen
- \* Max. operating temperature : 60°C
- \* Min. duration of backwash : 15 seconds
- \* Min. duration of purge : 15 seconds

### Standard Matériaux of Construction

- \* Filter housing and cover : carbon steel
- \* Filter elements : stainless steel 304L
- \* Gaskets : Nitril
- \* Internal backwash assembly: stainless steel 304L

**Alternative materials : all in stainless steel 304L or 316L**

### Standard filtration levels :

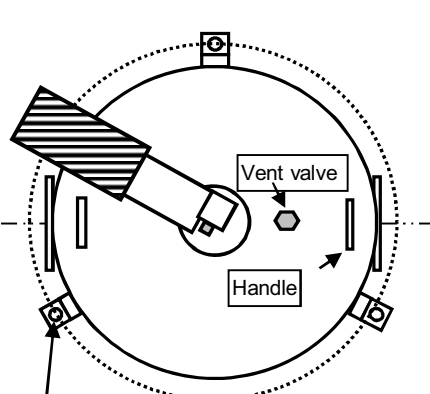
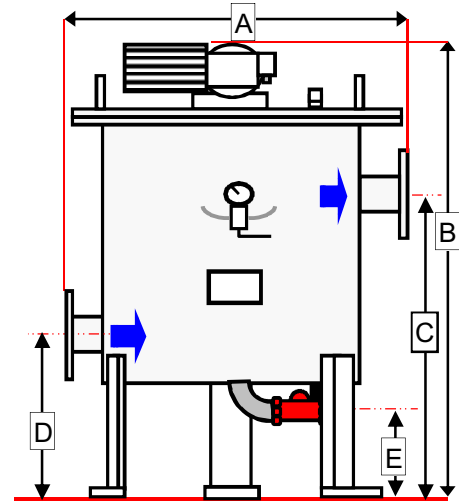
- \* 80,100,125,250,315,450,630,800 µ .For other filtration levels, contact factory

### Electrical Supply :

- \* 3-phase 380VAC + neutral
- \* Motor : 0,12kw IP55
- \* Purge Valve : 24 VAC

### Backwash Cycle activation :

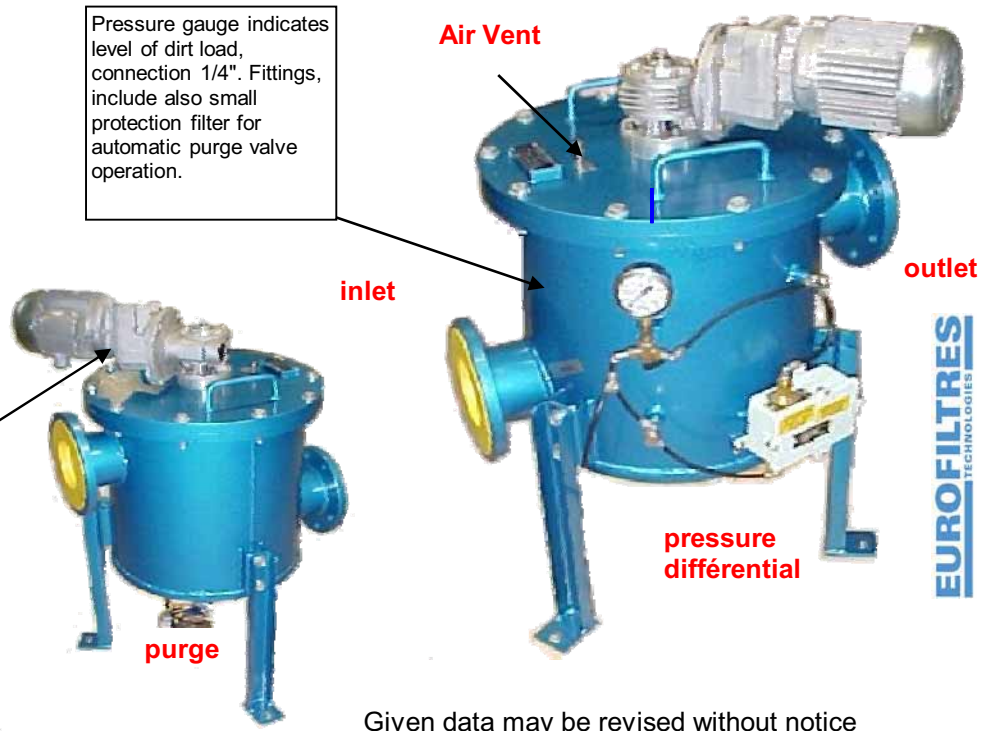
- \* By pre-set pressure differential. Factory set to 0,2 bar
- \* By timer, selecting time between 2 backwashes



Pressure gauge indicates level of dirt load, connection 1/4". Fittings, include also small protection filter for automatic purge valve operation.

Support legs : 3 holes, 9 mm on a diameter of 600 mm

Empty shaft for backwash water. Straining elements are cleaned by three shoes with holes. The holes, connected to atmosphere, are positioned in front of each filter element to create a cleaning suction. The gearmotor turns the shaft and the shoes clean all straining elements.



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Given data may be revised without notice