

Technical Data

Automatic filters >

> Angle Screen Filters STF Series SF 100 Hydraulic



DESCRIPTION:

Application

- Vertical hydraulic automatic screen filter for agriculture

Specifics

- Maximum pressure: 10 bar (other: on request)
- Minimum working pressure: 2,5 bar
- Fittings: flanged
- Wastewater output: 1"
- Filtering element: 100 micron (140 mesh) stainless steel screen
- Time and differential pressure backwash control system

Features

- Hydraulic safety-related control

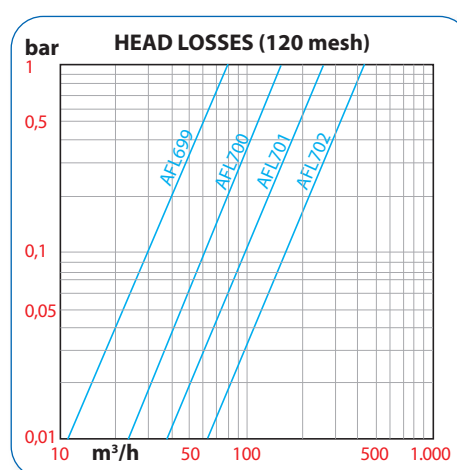
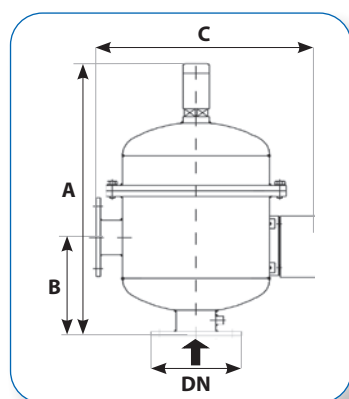
Materials

- Filter body: stainless steel
- Filtering screen: stainless steel
- Filtering screen support: co-pressed polypropylene
- Bucket reinforce structure: stainless steel sheet

SF 100 FILTERS WITH PP CARTRIDGE

Code	Filt. area cm ²	Q _{nom} m ³ /h	Q _{working} m ³ /h and water quality			Backwash m ³ /h
			high	medium	low	
AFL699	910	50	30	20	10	2,4
AFL700	1.600	90	50	30	20	3,0
AFL701	2.400	150	70	50	25	3,0
AFL702	4.800	250	90	70	50	9,0

Code	Filtering cartridge	Ø _{flange}	Q _{nom} m ³ /h
AFL699	PP	DN50	50
AFL700	PP	DN80	90
AFL701	PP	DN100	150
AFL702	PP	DN150	250



Code	Model	Dimensions mm				Filtering surface cm ²	Weight kg
		A	B	C	DN		
AFL699	SFI 102-A	600	220	480	50	910	35
AFL700	SFI 103-A	690	250	480	80	1.600	45
AFL701	SFI 104-A	800	320	570	100	2.400	60
AFL702	SFI 106-A	1.075	470	570	150	4.800	81

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> Angle Screen Filters STF Series SF 100 Electrical



DESCRIPTION:

Application

- Vertical hydraulic automatic screen filter with electrical engine for agriculture

Specifics

- Maximum pressure: 10 bar (other: on request)
- Minimum working pressure: 1 bar
- Fittings: flanged
- Wastewater output: 1"
- Filtering element: 100 micron (140 mesh) standard stainless steel screen
- Time and differential pressure backwash control system

Features

- Electrical engine: 220V - 0,33Cv
- Control unit supply: 220V Ac
- Hydraulic safety-related control

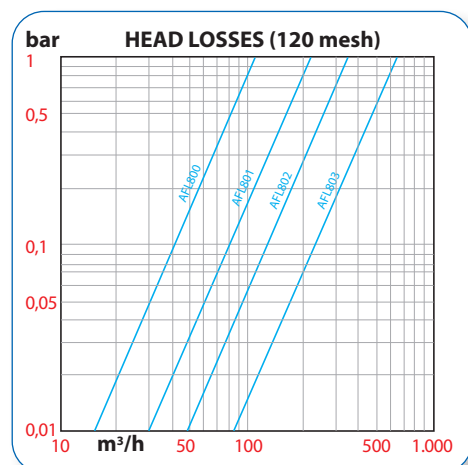
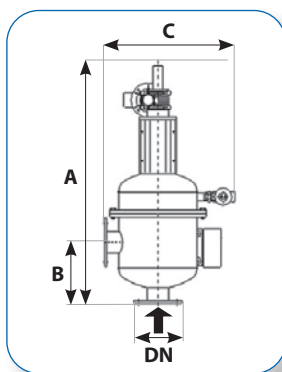
Materials

- Filter body: epoxy/polyester painted steel
- Filtering screen: stainless steel
- Filtering screen support: stainless steel (co-pressed on request)
- Bucket reinforce structure: stainless steel sheet

SF 100 FILTERS WITH STAINLESS STEEL CARTRIDGE

Cod	Filt. area cm ²	Q _{nom} m ³ /h	Q _{working} m ³ /h and water quality			Backwash m ³ /h
			high	medium	low	
AFL800	1.000	70	20	15	10	2,4
AFL801	1.760	140	40	28	20	3,0
AFL802	2.650	200	60	48	34	3,0
AFL803	5.300	350	120	100	70	9,0

Code	Filtering cartridge	Ø _{flange}	Q _{nom} m ³ /h
AFL800	Stainless steel	DN50	70
AFL801	Stainless steel	DN80	140
AFL802	Stainless steel	DN100	200
AFL803	Stainless steel	DN150	350



Code	Model	Dimensions mm				Filtering surface cm ²	Weight kg
		A	B	C	DN		
AFL800	SFI 102-E	1.150	220	500	50	1.000	42
AFL801	SFI 103-E	1.230	250	500	80	1.760	52
AFL802	SFI 104-E	1.340	320	590	100	2.650	67
AFL803	SFI 106-E	1.615	470	1.075	150	5.300	88

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PRINCIPLE OF OPERATION

- The dirty water flows through the filter inlet into the filtration area.
- The water passes through a roughing screen to protect the self-cleaning mechanism and the thinnest filter mesh from large particles.
- The water then passes through the fine filter screen.
- Dirt particles are trapped by the fine screen while clean water flows through the filter outlet.
- The trapped particles form a layer on the surface of the screen.
- By increasing the thickness of the layer, the resistance to flow increases, we will therefore have a corresponding increase in the pressure differential between inlet and outlet.
- After a certain period of use, the layer of dirt must be removed.
- When the pressure differential reaches the predetermined level (0.5 bar) the filter control unit starts the washing cycle by opening the drain valve.
- The system generates a helical movement along the screen to suck up the dirt particles trapped by the screen.
- The captured particles are discharged from the exhaust.

1. Input
2. Outlet
3. Prefilter
4. Modular filter element
5. Turbine room
6. Nozzles
7. Nozzle support axis
8. Turbine
9. Piston axis
10. Piston
11. Discharge

