



SELF CLEANING SUCTION FILTER

AF series

The AF series filters have applications in any pumping installations such as rivers, lakes, wells, tanks etc. The AF series filters are used as primary filters installed before the pump inlet. An important advantage is that due to their self-cleaning ability they minimize the pumps maintenance needs as well as increase its efficiency.



The benefits of the AF series filters are:

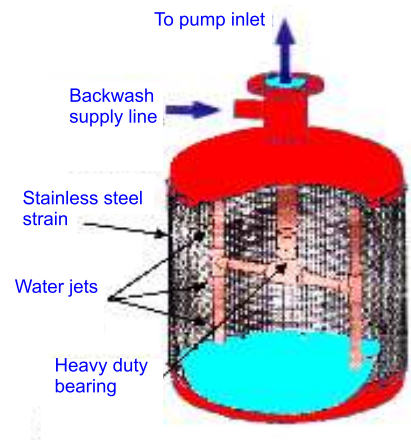
Protection of centrifugal pumps and turbine: The filters protect the blades and minimize the creation of suction cavities.

Energy conservation: They decrease losses due to pump wear, minimize the required pump maintenance (as explained below), while the ongoing cleaning of the filtration surface decreases the pressure losses.

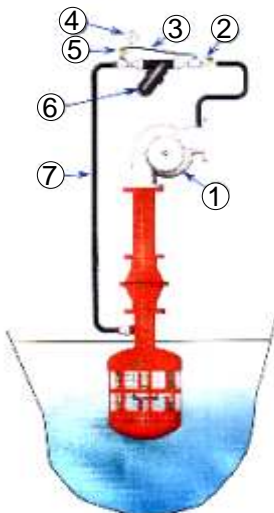
Maintenance: They increase the time interval between the required scheduled maintenance of the pump

Unaffected continuous system operation: The periodic self-cleaning function does not require system shutdown during cleaning operation.

The AF series filters are constructed from stainless steel sheet which is supported on a metal frame painted using electrostatic polyester paint 120 micron thickness. A water jet spraying system is installed internally.



An AF series filter installation typically includes:



1. Water pump
2. Control valve
3. Inlet pressure pipe
4. Manometer
5. Three-way valve regulator
6. Screen filter
7. Cleaning water supply pipe

The filter is cleaned by means of reverse washing. During the self-cleaning the jet spraying system rotates and sprays with pressure the entire filtration surface..

General Characteristics

The filtration grade ranges from 1500 to 2000 microns. Their anti-corrosive protection includes surface treatment using phosphoric acids followed by electrostatic polyester paint, while other available paint and material options are also available pending request.

The product is supplied with multiple couplings and flanges options availability (DIN, ASA, etc) conforming to all required international standards.

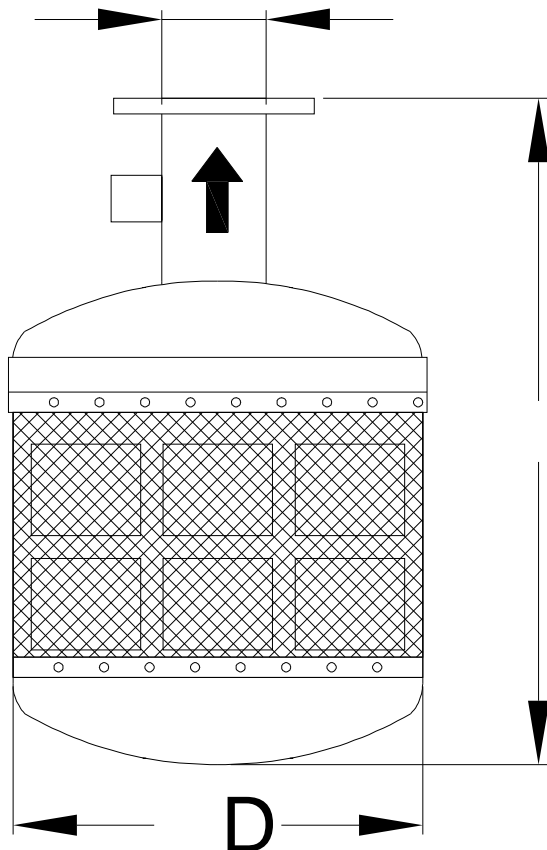
The recommended operating pressure range is 2 to 3 bars (29 to 43,5 psi).



Characteristics and Dimensions

Model	ΦB		ΦD		H	Maximum recommended flow rate m ³ /h - gpm				Maximum recommended washing flow rate	
	in.	mm	in.	mm		1200 micron	2500 micron	m ³ /h	gpm		
AF 4	4''	450	18	720	28.3	80	352	100	440	5	22
AF 6	6''	500	20	880	34.6	180	792	230	1012	5	22
AF8	8''	500	20	1000	39.4	300	1321	380	1673	5	22
AF10	10''	600	24	1100	43.3	420	1850	550	2421	6.5	28.6
AF12	12''	600	24	1300	51.2	600	2642	750	3302	6.5	28.6
AF14	14''	900	36	1400	55.1	800	3522	1000	4400	6.5	28.6
AF16	16''	900	36	1400	55.1	1000	4400	1200	5283	6.5	28.6

Dimension Diagram



Typical installations of AF series filters

