

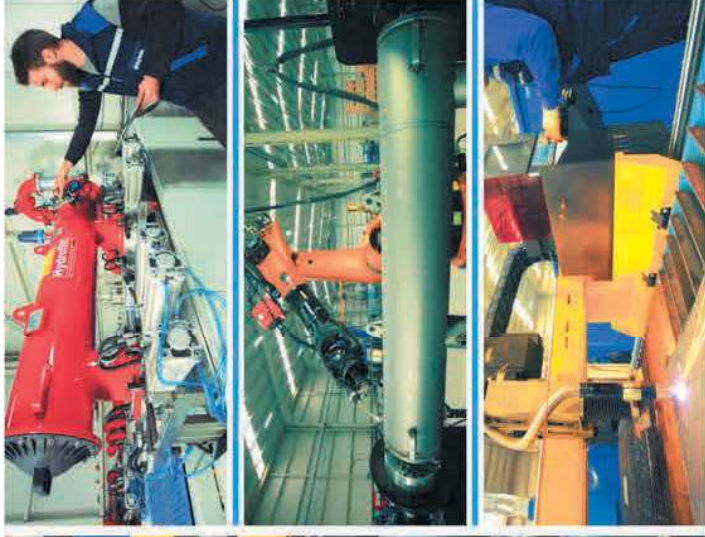
AYTOK FILTRATION USAGE AREA

- AGRICULTURAL IRRIGATION FILTRATION SYSTEMS
- COOLING TOWER FILTRATION SYSTEMS
- LASTAGE(BALLAST) FILTRATION SYSTEMS
- HYDROELECTRIC PLANT FILTRATION SYSTEMS
- SEA WATER DESALINATION FILTRATION SYSTEMS
- VARIOUS WATER SOURCE FILTRATION SYSTEMS (RIVER, LAKE, DAM ETC.)
- WELL WATER FILTRATION SYSTEMS

- SPECIFIC FILTRATION ON MANUFACTURING PLANT BASED ON WATER CONTAMINATION, FLOW AND PRESSURE
- REVERSE OSMOSIS AND PURIFICATION FILTRATION SYSTEMS
- GREENHOUSE FILTRATION SYSTEMS
- WASTE WATER TREATMENT FILTRATION SYSTEMS



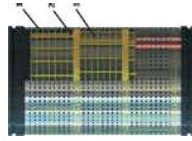
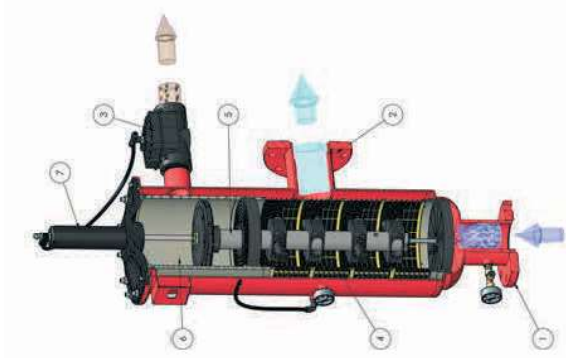
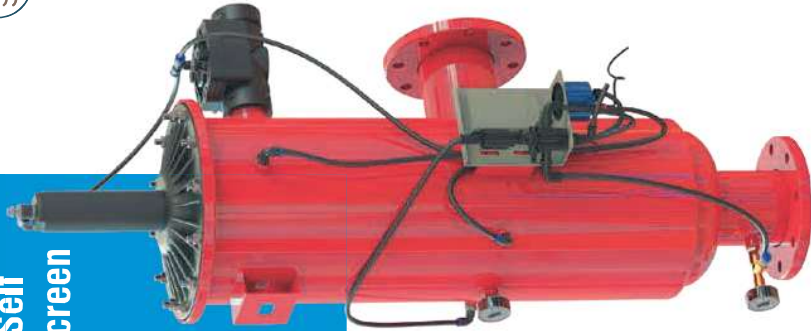
IRRIGATION



AUTOMATIC SELF CLEANING SCREEN FILTERS

- AUTOMATIC SELF CLEANING SCREEN FILTER VBE MODELS
- AUTOMATIC SELF CLEANING SCREEN FILTER HBE MODELS
- AUTOMATIC SELF CLEANING SCREEN FILTER VRF MODELS (motor reducer)
- AUTOMATIC SELF CLEANING SCREEN FILTER RF MODELS (motor reducer)
- SEMI AUTOMATIC SELF CLEANING SCREEN FILTER MF MODELS

Automatic Self Cleaning Screen Filter

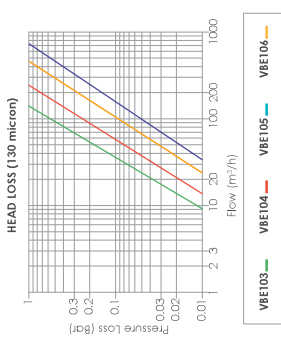
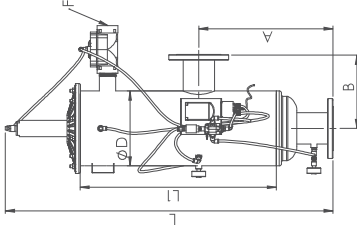


- 1- Protector coarse screen SS304L
- 2- Moulded plastic rib (PA6)
- 3- The main filtering screen

GENERAL CHARACTERISTICS

Body Material: S1957 / SS 316L / SS 304 L
 Screen Material: SS 304L, PA6GFR30
 Maximum Working Pressure : 10 Bar (145 PSI)
 Minimum Working Pressure: 2 Bar (29 PSI)
 Maximum Working Temperature: 60 °C (140 °F)
 Back Flush Operation Criteria: Time and / or Pressure Differential
 Back Flush Controlling Unit: Electronic (AC/DC) Control
 Filtration Degree: 20-2000 micron (µ)
 Painting Method: Electrostatic Powder Coating
 Painting Material: Epoxy Polyester

SCREEN VBE automatic



CODE	Inlet/Outlet		A	B	L	L1	D	F	Drain Flow Rate	Main Flow Rate	Filtration Area	Nozzle	Sieve	Weight	
	inch	DN	mm	mm	mm	mm	inch	inch	L/S	Usgpm	cm²	Qty.	mm	kg	
VBE102	2	50	465	270	515	965	10	1 ½	3,3	53	1317	2	2	46	
VBE102S	2	50	515	270	615	1065	10	1 ½	5	79	1975	3	3	50	
VBE102SF	2 ½	65	465	270	515	965	10	1 ½	3,3	53	1317	2	2	51	
VBE102S	2 ½	65	515	270	615	1065	10	1 ½	5	79	1975	3	3	52	
VBE103F	3	80	465	270	515	965	10	1 ½	3,3	53	1317	2	2	52	
VBE103	3	80	515	270	615	1065	10	1 ½	5	79	1975	3	3	54	
VBE104F	4	100	515	270	615	1065	10	1 ½	5	79	1975	3	3	56	
VBE104	4	100	565	270	715	1165	10	2	6,7	105	2634	4	4	59	
VBE104S	4	100	855	287	1120	1725	10	2	5	79	140	616	3	6	76
VBE105	5	125	855	287	1120	1725	10	2	5	79	150	660	3	6	79
VBE105S	5	125	955	287	1320	1925	10	2	6,7	105	160	704	4	8	85
VBE106	6	150	955	287	1320	1925	10	2	6,7	105	180	792	4	8	90

WORKING PRINCIPLE

Filter sections: 1- Dirty water inlet, 2-Clean water outlet, 3- Backwash dirty water outlet drainage, 4-Sieve internal kit (multi-layer), 5-Collector kit (backwash water vacuuming channel), 6-Turbine chamber, Water enters the filter and passes through multi-layer filter, then passes coarse sieve. Water continues to flow from fine filter to exit, creates a layer of pollution inner surface of the filter and this pollution creates pressure difference at inlet and outlet of the filter. Backwash begins when this pressure difference comes at a predetermined level. A specified pressure difference is reached, the backwash control unit opens discharge valve. Atmospheric pressure in discharge pipe creates a strong backwash. This flow returns cleaning collector through hydraulic turbine and drainage pipe after vacuuming the pollution in the inner surface of filter by creating a vacuum effect at nozzles. Pressure decrease consist in turbine part and piston drainage provides a linear motion to cleaning collector. This rotation and linear motion provides absorption of pollution layer in the inner surface of filter by nozzles. When process is completed, cleaning collector automatically makes a second backwash and returns to its original position, so ashing process is completed. During backwash filtering process continues. For efficiently work at system, during backwash process inlet pressure must not be less than 2 Bar (29PSI).

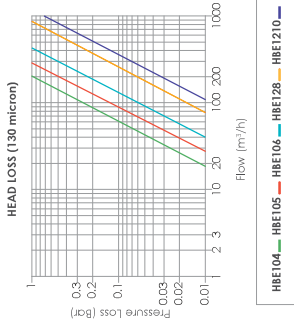
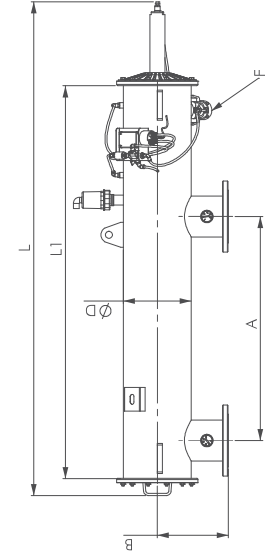
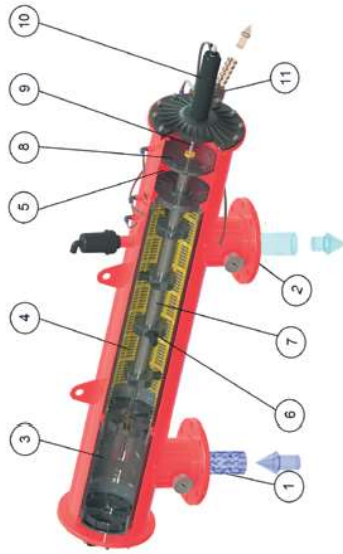
Automatic Self Cleaning Screen Filter



SCREEN HBE automatic

GENERAL CHARACTERISTICS

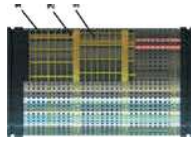
Body Material: S195T / SS 316L / SS 304 L
Screen Material: SS 304L, PAG6FR30
Maximum Working Pressure : 10 Bar (145 PSI)
Minimum Working Pressure: 2 Bar (29 PSI)
Maximum Working Temperature: 60 °C (140 °F)
Back Flush Operation Criteria: Time and / or Pressure Differential
Back Flush Controlling Unit: Electronic (AC/DC) Control
Filtration Degree: 20-2000 micron (µ)
Painting Method: Electrostatic Powder Coating
Painting Material: Epoxy Polyester



CODE	Inlet/Outlet		A		B		L1		L		D		F		Main Flow Rate		Filtration Area		Nozzle		Sieve		Weight	
	inch	DN	inch	mm	mm	mm	inch	inch	L/S gal (US)/min	m³/h	gal (US)/min	cm²	Qty.	Qty.	kg									
HBE104	4	100	500	287	1070	1475	10	2	3,3	53	120	528	2634	2	4	64								
HBE104S	4	100	600	287	1270	1675	10	2	5	79	140	616	3951	3	6	75								
HBE105	5	125	600	287	1270	1675	10	2	5	79	150	660	3951	3	6	78								
HBE105S	5	125	900	287	1580	1985	10	2	6,7	105	160	704	5268	4	8	89								
HBE106	6	150	900	287	1580	1985	10	2	6,7	105	180	792	5268	4	8	94								
HBE126S	6	150	1100	312	1972	2375	12	2	10	158	220	968	7902	6	12	132								
HBE128	8	200	1100	312	1972	2375	12	2	10	158	320	1408	7902	6	12	135								
HBE1210	10	250	1100	312	1972	2375	12	2	10	158	380	1672	7902	6	12	166								

WORKING PRINCIPLE

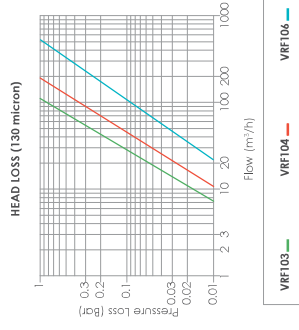
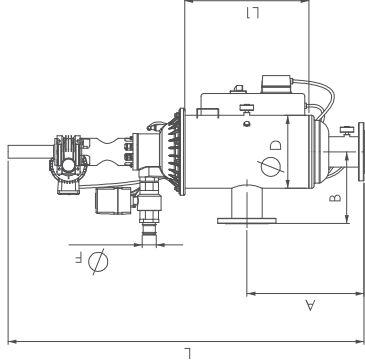
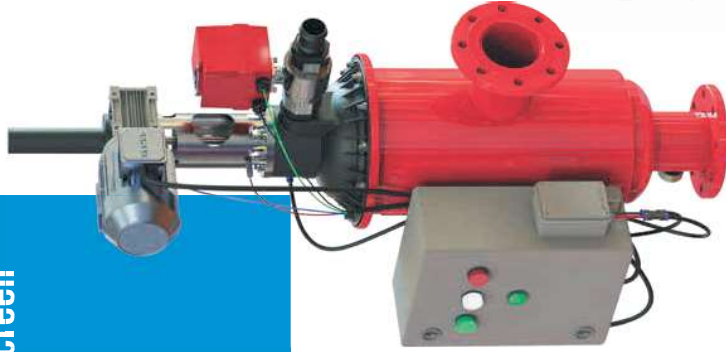
Water enters the filter (1) and passes through multi-layer filter, then passes coarse sieve (3). Water continues to flow from fine filter to exit (2). creates a layer of pollution inner surface of the filter and this pollution creates pressure difference at inlet and outlet of the filter. Backwash begins when this pressure difference comes at a predetermined level. A specified pressure difference is reached, the backwash control unit opens discharge valve (9). Atmospheric pressure in discharge pipe creates a strong backwash. This flow returns cleaning collector through cleaning collector (7), hydraulic turbine (8) and drainage pipe after vacuuming the pollution in the inner surface of filter by creating a vacuum effect at nozzles (6). Pressure decrease which occurs at hydraulic turbine (5) and drainage of the piston (10), provides a linear motion to the cleaning collector. This rotation and linear motion provides absorption of pollution layer in the inner surface of filter by nozzles. When process is completed, cleaning collector automatically makes a second backwash and returns to its original position, so washing process is completed. During backwash filtering process continues. For efficiently works of system, during backwash process inlet pressure must not be less than 2 Bar (29PSI).



- 1 - Protector coarse screen SS304L
- 2 - Milled plastic rib (PA6)
- 3 - The main filtering screen



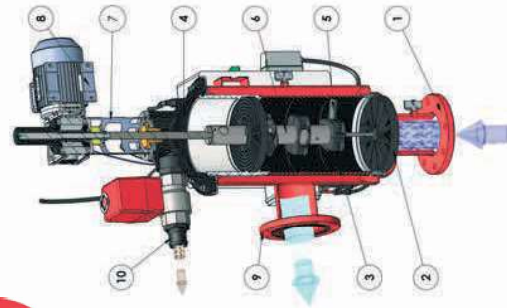
Automatic Self Cleaning Screen Filter



CODE	Inlet/Outlet		A	B	L1	mm	L	D	F	Drain Flow Rate		Main Flow Rate		Filtration Area	Nozzle	Qty.	Sieve	Weight
	inch	DN								gal (US)/min	m³/h	gal (US)/min	cm²					
VRF102F	2	50	310	270	240	1110	10	2	1,7	26	30	132	658	2	1	27		
VRF1025F	2 1/2	65	310	270	240	1110	10	2	1,7	26	40	176	658	2	1	28		
VRF102	2	50	390	270	385	1235	10	2	3,3	53	40	176	1317	2	2	43		
VRF1025	2 1/2	65	390	270	385	1235	10	2	3,3	53	50	220	1317	2	2	44		
VRF103	3	80	390	270	365	1235	10	2	3,3	53	55	242	1317	2	2	45		
VRF103S	3	80	440	270	465	1335	10	2	5	79	70	308	1975	3	3	48		
VRF104	4	100	440	270	465	1335	10	2	5	79	100	440	1975	3	3	50		
VRF104S	4	100	490	270	585	1435	10	2	3,3	53	120	528	2634	4	4	52		
VRF105	5	125	590	287	785	1710	10	2	5	79	150	660	3951	6	6	60		
VRF105S	5	125	840	287	1015	1960	10	2	5	79	180	792	5268	4	8	132		
VRF106	6	150	840	287	1015	1960	10	2	5	79	180	792	5268	4	8	135		

WORKING PRINCIPLE

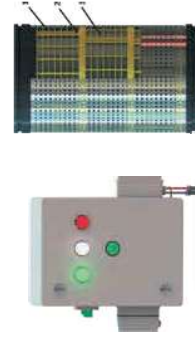
The suspensive solid matters available in the dirty water and liquids come into the coarse screen (2) passing through (1) the inlet collector and then into the multi-layer fine screen. The solid matters are kept into the (3) fine screen, the clean water which flows out of the multi-layer screen is served up to use through the (9) outlet collector. At the end of this continuous process, a solid matter layer will form in the multi-layer screen. Hence, a pressure difference is consisted naturally between the inlet collector and outlet collector. The signals created by this pressure difference vacuum the solid matters which are accumulated on interior membrane of the multi-layer fine filter by programming via (11) electronic controller. Vacuuming process-electronic: The lid covering the drainage outlet is opened by means of a signal sent to solenoid valve detecting the pressure DP in the electronic controller (11). A current is formed towards the atmosphere pressure in the filter following the Solenoid valve (12) opening and controller (10) driving the motor (8), with this vacuum pipe and therefore moving the nozzles with linear and rotary motion, solid matters on the interior membrane of the multi-layer filter are thrown out by vacuuming.



SCREEN VRF motor reducer

GENERAL CHARACTERISTICS

- Body Material: S195T / SS 316L / SS 304 L
- Screen Material: SS 304L, PAGGR30
- Maximum Working Pressure: 10 Bar (145 PSI)
- Minimum Working Pressure: 1 Bar (15 PSI)
- Maximum Working Temperature: 60 °C (140 °F)
- Back Flush Operation Criteria: Time and / or Pressure Differential
- Back Flush Controlling Unit: Electronic (AC) Control
- Filtration Degree: 20-2000 micron (µ)
- Painting Method: Electrostatic Powder Coating
- Painting Material: Epoxy Polyester



- 1- Protector coarse screen SS304L
- 2- Molded plastic rib (PAG)
- 3- The main filtering screen



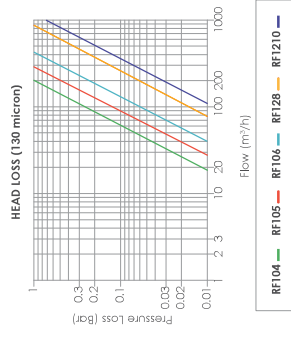
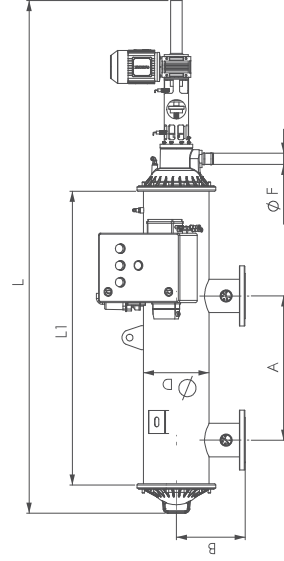
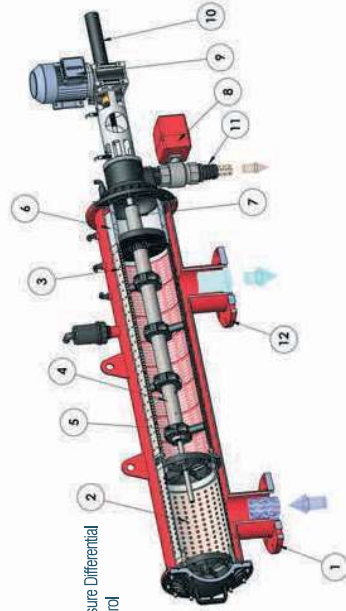
Automatic Self Cleaning Screen Filter



SCREEN RF motor reducer

GENERAL CHARACTERISTICS

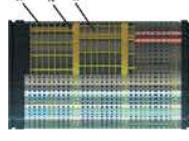
Body Material: S195T / SS 316L / SS 304 L
 Screen Material: SS 304L - P4GGFR30
 Maximum Working Pressure: 10 Bar (145 PSI)
 Minimum Working Pressure: 1 Bar (15 PSI)
 Maximum Working Temperature: 60 °C (140 °F)
 Back Flush Operation Criteria: Time and / or Pressure Differential
 Back Flush Controlling Unit: Electronic (AC) Control
 Filtration Degree: 20-2000 micron (µ)
 Painting Method: Electrostatic Powder Coating
 Painting Material: Epoxy Polyester



CODE	Inlet/Outlet		A		B		L1		L		D		F		Drain Flow Rate		Main Flow Rate		Filtration Area		Nozzle		Sieve		Weight	
	inch	DN	mm	mm	mm	mm	inch	inch	L/S	Usqpm	m³/h	Usqpm	cm²	Qty.	kg											
RF104	4	100	500	287	920	1770	10	2	3,3	53	120	528	2634	2	4	90										
RF104S	4	100	600	287	1120	1970	10	2	5	79	140	616	3951	3	6	100										
RF105	5	125	600	287	1120	1970	10	2	5	79	150	680	3951	3	6	100										
RF105S	5	125	900	287	1430	2285	10	2	6,7	105	160	704	5268	4	8	108										
RF106	6	150	900	287	1430	2285	10	2	6,7	105	180	792	5268	4	8	110										
RF126S	6	150	1100	312	1972	2825	12	2	10	158	220	988	7902	6	12	150										
RF128	8	200	1100	312	1972	2825	12	2	10	158	320	1408	7902	6	12	152										
RF1210	10	250	1100	312	1972	2825	12	2	10	158	380	1672	7902	6	12	165										

WORKING PRINCIPLE

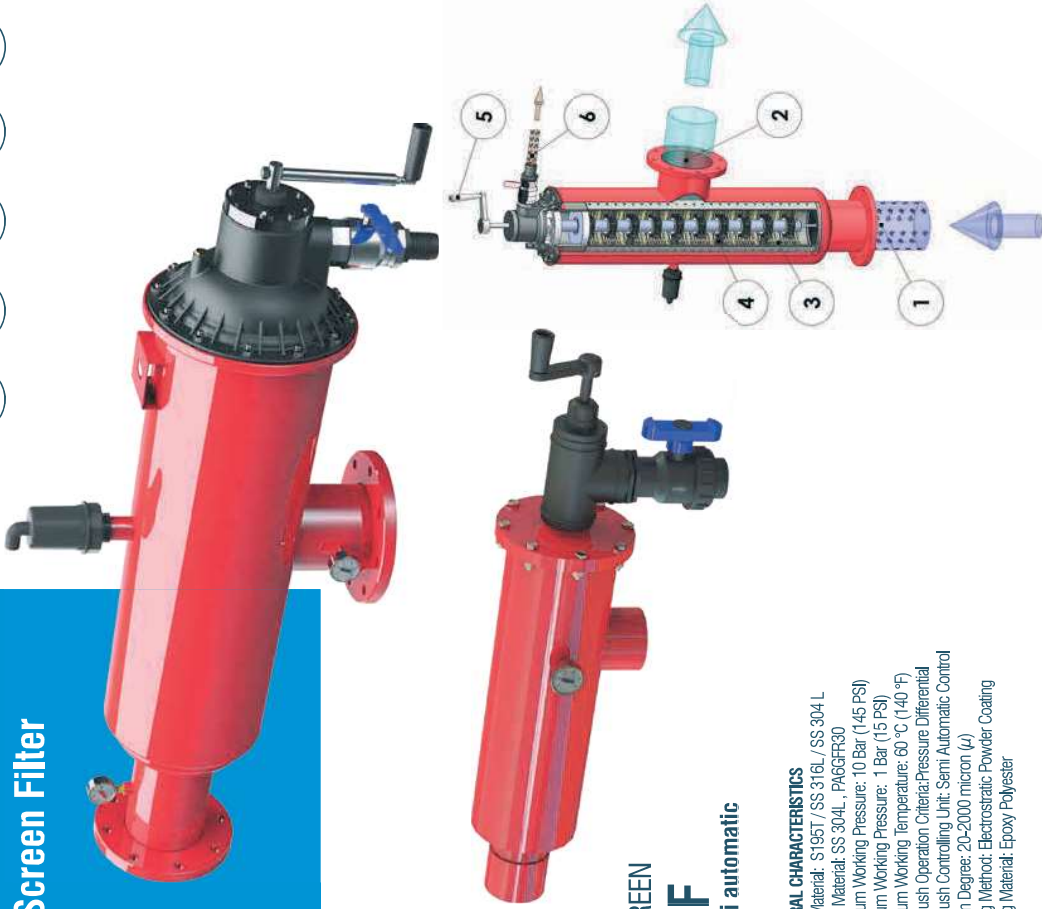
The suspensive solid matters available in the dirty water and liquids come into the coarse screen (2) passing through (1) the inlet collector and then into the multi-layer fine screen. The solid matters are kept into the (3) fine screen, the clean water which flows out of the multi-layer screen is served up to use through the (12) outlet collector. At the end of this continuous process, a solid matter layer will form in the multi-layer screen. Hence, a pressure difference is consisted naturally between the inlet collector and outlet collector. The signals created by this pressure difference vacuum the solid matters which are accumulated on interior membrane of the multi-layer fine filter by programming via electronic Vacuuming process-electronic: The lid covering the drainage outlet is opened by means of a signal sent to solenoid valve detecting the pressure by DP in the electronic controller (13). A current is formed towards the atmosphere pressure in the filler following the Solenoid valve (8) opening. The controller (11) drives the motor (9) at the same time, and therefore solid matters on the interior membrane of the multi-layer filter are thrown out moving the vacuuming pipe and therefore the nozzles with linear and rotary motion by vacuuming.



- 1 - Protector coarse screen SSS304L
- 2 - Molded plastic rib (P46)
- 3 - The main filtering screen



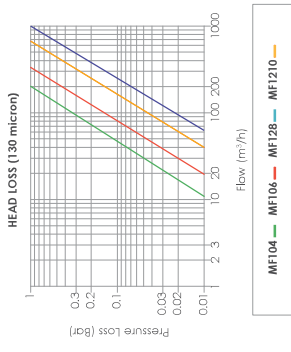
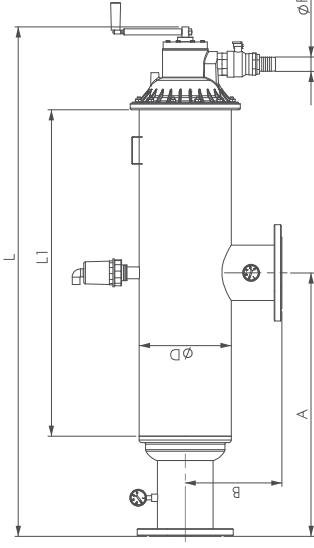
Semi-Automatic Screen Filter



SCREEN MF semi automatic

GENERAL CHARACTERISTICS

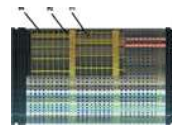
Body Material: S195T / SS 316L / SS 304 L
 Screen Material: SS 304L - PAG6FR30
 Maximum Working Pressure: 10 Bar (145 PSI)
 Minimum Working Pressure: 1 Bar (15 PSI)
 Maximum Working Temperature: 60 °C (140 °F)
 Back Flush Operation Criteria: Pressure Differential
 Back Flush Controlling Unit: Semi Automatic Control
 Filtration Degree: 20-2000 micron (µ)
 Painting Method: Electrostatic Powder Coating
 Painting Material: Epoxy Polyester



CODE	Inlet/Outlet		A	B	L1	L	D	F	Drain Flow Rate		Main Flow Rate	Filtration Area	Nozzle	Sieve	Weight	
	inch	DN	mm	mm	mm	inch	inch	inch	L/S	Usqpm	m³/h	Usqpm	cm²	Qty.	kg	
MF602	2	50	320	145	400	750	6	1 1/2	2.5	40	30	132	1140	6	3	20
MF602S	2 1/2	65	320	145	400	750	6	1 1/2	2.5	40	35	154	1140	6	3	18
MF603	3	80	450	145	515	880	6	1 1/2	3.3	52	45	198	1520	8	4	25
MF804	4	100	585	180	635	1005	8	1 1/2	4.2	66	70	308	1900	10	5	33
MF105	5	125	680	287	770	1315	10	2	5.0	79	150	660	3951	3	6	57
MF106	6	150	780	287	970	1515	10	2	6.7	105	180	792	5268	4	8	67
MF126S	6	150	985	312	1385	1830	12	2	10.0	158	220	988	7902	6	12	115
MF128	8	200	870	312	1150	1695	12	2	8.3	132	320	1408	6585	5	10	115
MF128S	8	200	985	312	1385	1930	12	2	10.0	158	340	1496	7902	6	12	127

WORKING PRINCIPLE

The water flows through the inlet and reaches to the fine screen (1) which is covered and protected by a coarse screen (3) made of rough material. Here, the dirt particles are trapped inside the fine screen while the filtered water flows through the outlet. (2) Trapped dirt particles from the filler cake on the inner surface of the fine screen. In order to clean the filter, open the drainage valve to allow the trapped particles to be flushed away from the system. After, rotating the handle (5) in counter clockwise direction and then clockwise rotation, in this way, the suction nozzles (4) move in a spiral movement along the screen to vacuum up the collected dirt particles from the screen. The captured particles are flushed out the drain. (6) Repeat this process until the inlet and outlet pressures are balanced. Cleaning is done during the filtration process without interrupting the water flow through the filter.



- 1 - Protector coarse screen SSS04L
- 2 - Meshed plastic top (PAG)
- 3 - The main filtering screen