

AUTOMATIC SELF-CLEANING SCREEN FILTERS

The Dolphin series hydraulic cleaning filter is an type of self cleaning filter with no energy consumption. The filter contains a Hydraulically operated collector with suction nozzles to ensure continuous operation. The filter is widely used in agricultural irrigation, metallurgical industry, petrochemical industry, municipal engineering and other water treatment projects.

With the advantages of simple structure, convenient maintenance and long service life, it becomes an environmental-friendly water treatment equipment.

FEATURES OF PERFORMANCE

- ✓ Easy to combine with other filters
- ✓ Minimal water use for cleaning, about 1% of the total filtration water needed only and without flow cutoff.
- ✓ Simply structure with convenient installation and maintenance
- ✓ The filter suitable for the area without electricity. The installation of the filter does not need special base, the cement pavement is possible.
- ✓ The filtration working pressure should be slightly higher than 0.25MPa . Otherwise, the water filtration quality through backwash will not so good as required .
- ✓ New controller and latching solenoid powered by 9V alkaline battery can support the filter operation more than half year.

FEATURES OF STRUCTURE

Model: M / L / V type
Control: Electronic & hydraulic
Single filter flow: 25-380 m³/h
Inlet& Outlet diameter: DN50-DN250
Internal and External anti-corrosion: Electrostatic spraying (outdoor)
Maximum working pressure: 8 bar
Filtering accuracy: 120μm/200μm
Control ways: DP TIME MANUAL
Housing material: Carbon steel , Stainless Steel
Strainer: 304L+PVC



DOLPHIN

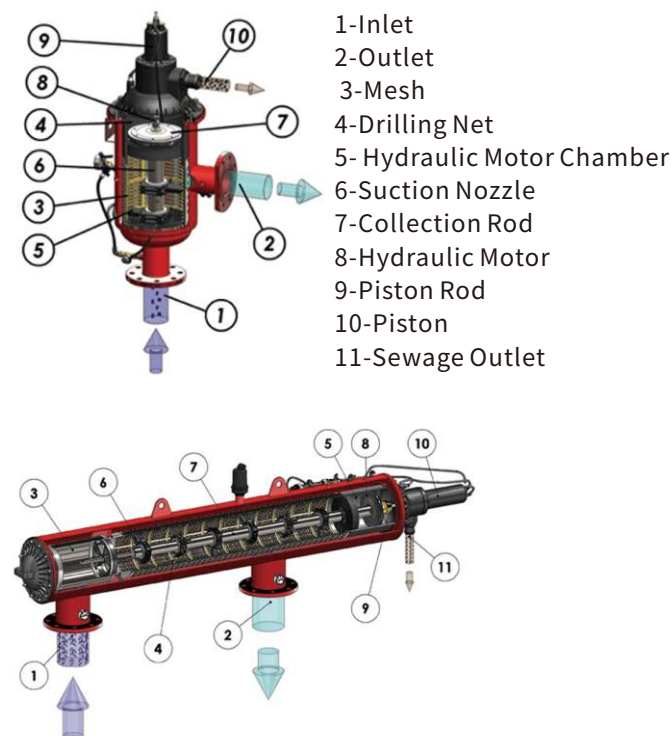
The cheapest hydraulic automatic cleaning screen filters



BACCCARA Backwash controller and solenoid
Powered by 9v,
bring the controller a
longer lifetime and stability

WORKING PRINCIPLE

Water enter the filter from the inlet, pass through the coarse screen to clean big particles and then enter fine screen to clean small particles. The dirt accumulated creates a pressure differential across the screen. Once the preset pressure differential value is reached, the pressure switch gauge will activate the self- cleaning process. The cleaning can be controlled by DP, TIME and MANUAL .



APPLICABLE FIELDS

Model	Technical Parameters										Material	
	Processing Capacity (m ³ /h)	Inlet/Outlet Size	Filtration Area (cm ²)	Weight (kg)	Max Working Pressure (bar)	Min Working Pressure (bar)	Controller DP Switch Solenoid	Filtration Accuracy (μm)	Working Temperature (°C)	Connection	Tank	Screen
FSNV2E	25	2"	1317	31	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNV3E-A	40	3"	1317	35	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNV3E-B	50	3"	1975	40	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNV4E	70	4"	1975	45	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNL4E-A	80	4"	2634	60	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNL4E-B	100	4"	3951	65	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNL5E-A	140	5"	3951	67	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNL5-B	150	5"	5268	75	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNL6E	180	6"	5268	85	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNM4E-A	80	4"	2634	72	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNM4E-B	100	4"	3951	83	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNM5E-A	140	5"	3951	85	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNM5-B	150	5"	5268	92	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNM6E-A	180	6"	5268	95	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNM6E-B	220	6"	7902	135	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNM8E	320	8"	7902	142	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304
FSNM10E	380	10"	7902	154	8	2.5	BACCARA	120/200	0~60	Flange	Carbon Steel	SS304

Surface Treatment& Painting

Shot Blasting /Electrostatic spraying process painting thickness≥120μm

MULTILAYER STAINLESS
STEEL SCREEN BRINGS
HIGH PRECISION FILTER EFFECT

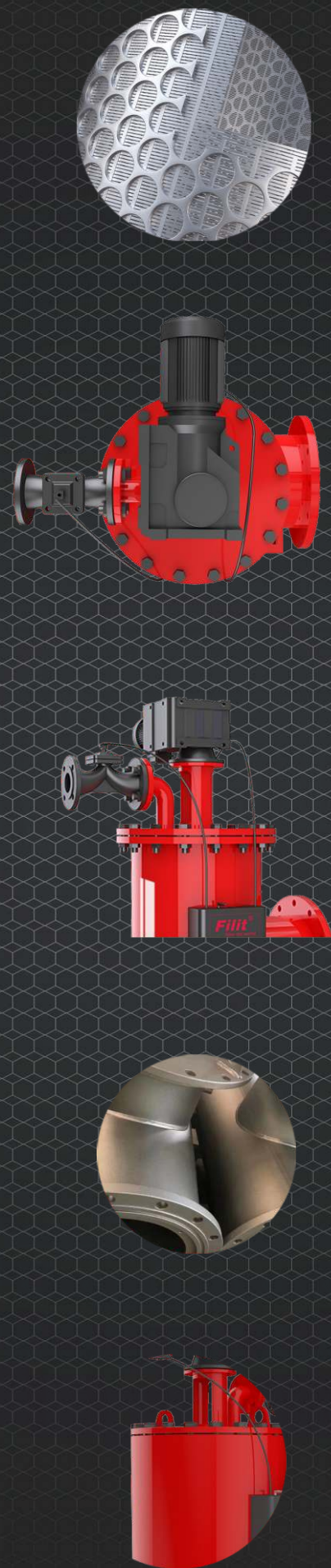
USING IMPORT DRAIN VALVE,
WHICH MAKES OUR PRODUCTS
BECOME THE FIRST LEVEL
IN DOMESTIC MARKET

MULTI FLUSH CONTROL WAYS:
TIME, DP AND MANUAL

WELDING BY THE AUTOMATIC
ROBOT PRODUCTION LINE

ELECTROSTATIC SPRAYING
PROCESS
PAINTING THICKNESS $\geq 150\mu\text{m}$

POST SALES SERVICE RESPONSE TIME WITHIN 24H.



FILTER FOR WORLD

DSL FILTER

Single filter flow rate: 25~2800t/h.
Working pressure (Min.): 0.2Mpa
Working pressure (Max.): 0.6Mpa/1.0Mpa/1.6Mpa/2.5Mpa/4.0Mpa
Working temperature(Max.): 70℃
Filter accuracy: 80 to 5000 micron
Control modes: DP TIME MANUAL
Flush time: 60 sec
Flush pressure loss : 0.01~0.03Mpa
Voltage: 220V AC
Rated voltage: three-phase electric, 220V, 380V, 50HZ



Model	Port (mm)	Flow (t/h)	Filtration Area (cm)	Drain Valve DN(mm)	Clean Capacity /per time (m)	Motor Power (Kw)	Weight (Kg)
DSL2	DN50	25	3000	DN25	0.06	0.18	88
DSL2.5	DN65	30	3000	DN25	0.06	0.18	92
DSL3	DN80	50	3000	DN25	0.06	0.18	95
DSL4	DN100	80	3000	DN25	0.06	0.18	105
DSL5	DN125	120	3000	DN40	0.15	0.18	115
DSL6	DN150	160	5900	DN40	0.15	0.18	170
DSL8	DN200	300	5900	DN40	0.15	0.18	185
DSL10	DN250	450	9500	DN50	0.20	0.37	230
DSL12	DN300	650	9500	DN50	0.20	0.37	265
DSL14	DN350	120	12000	DN50	0.35	0.55	430
DSL16	DN400	160	12000	DN50	0.35	0.55	450
DSL18	DN450	300	15000	DN65	0.35	0.75	680
DSL20	DN500	450	15000	DN65	0.35	0.75	720
DSL24	DN600	650	18000	DN65	0.35	0.75	915

Size Data									
Model	ΦD (mm)	H (mm)	H1 (mm)	H2 (mm)	H2* (mm)	L1 (mm)	L2 (mm)	L (mm)	
DSL2	Φ273	400	750	926	1500	320	280	800	
DSL2.5	Φ273	400	750	926	1500	320	280	800	
DSL3	Φ273	400	750	926	1500	320	280	800	
DSL4	Φ273	400	750	926	1500	320	280	800	
DSL5	Φ273	400	750	926	1500	320	280	800	
DSL6	Φ325	800	1300	1527	2700	310	350	1000	
DSL8	Φ325	800	1300	1527	2700	310	350	1000	
DSL10	Φ426	800	1375	1606	2800	400	400	1200	
DSL12	Φ426	800	1375	1606	2800	400	400	1200	
DSL14	Φ612	900	1552	1784	3000	525	500	1500	
DSL16	Φ612	900	1552	1784	3000	525	500	1500	
DSL18	Φ816	950	1700	1943	3200	605	600	1800	
DSL20	Φ816	950	1700	1943	3200	605	600	1800	
DSL24	Φ916	1000	1722	1963	3200	640	650	2000	

Note: H2* is the minimum size for opening the filter