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AGRICULTURAL SUSTAINABLE SOLUTIONS

HYDRAULIC AUTOMATIC CLEAN SCREEN FILTER

FSN series hydraulic automatic clean filter is a kind of energy free self driving hydraulic filter. is suitable for water treatment projects, such as agricultural irrigation, metallurgical industrypetrochemical industry, municipal engineering and other water treatment projects. It makes use of the physical characteristics of the water pressure, does not require electrical control, complete removal of sucking impurities; it reduces energy consumption, simplifies the filtration method and it is more suitable the place without electric or somewhere hard to supply electric; it has the advantages of simple structure, convenient maintenance, long service life, it is a kind of water treatment equipment to saving energy and protection environmental.

V type hydraulic automatic clean screen filter

M type hydraulic automatic clean screen filter

L type hydraulic automatic clean screen filter

PERFORMANCE FEATURES

- It is convenient to combine with filter equipment such as hydrocyclon sand separator filter.
- The cleaning water consumption is minimal, about 1% of the total filtration quantity is not broken.
- The principle structure is simple and the installation and maintenance are convenient.
- The weight of the system is light, no special foundation is needed, and the cement can be energy saving and environmental protection.It is suitable for the situation that the power supply is not easy.
- The hydraulic pressure of the equipment is slightly higher than 0.25MPa, otherwise the water pressure will be due to water pressure too low to cause incomplete cleaning, and affect the effluent index.
- A new type of electronic controller, using a locked solenoid valve, low power consumption, a 9V dry battery,It can be used for more than half a year, without power supply, and more adaptable.

STRUCTURE CHARACTERISTIC

Structure form: three options for M type/ L type /V type

Control mode: electronic control / hydraulic control

Single flow: 25-380m3/h

Inlet and outlet pipe diameter: DN50-DN250

Internal and external anticorrosion: electrostatic powder spraying (outdoor type)

Maximum working pressure: 8 bar

Filtering accuracy: 120μm

Cleaning control mode: pressure difference time (electronic type) and manual

Cylinder material: carbon steel or stainless steel

Filter material: 304L+PVC

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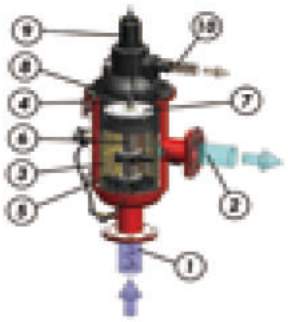
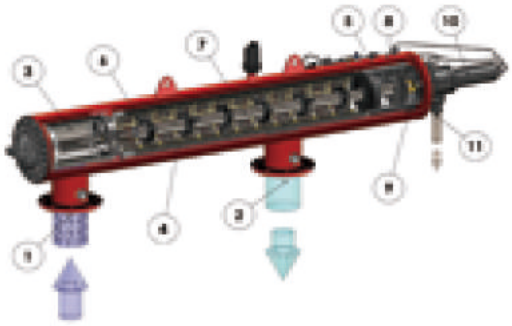
OPERATING PRINCIPLE

The raw water enters from the inlet end of coarse filter through the coarse filter screen, enter a fine strainer by outlet; after a period of time after work, more impurities fine filter screen, the outlet end pressure difference increases, when the pressure reaches the set limit when certain pressure sensors(pressure switch) signal the electronic controller, control solenoid valve switch water hydraulic piston cylinder, push sucking compound cleaning, and because the role of water hydraulic drive, motor rotation, drive the sucking cylinder spiral movement, the impurity cleaning is discharged by the discharge valve until the pressure drop to the set value can be achieved by less than the pressure difference, and online backwashing time three heavy manual control, so as to better ensure the realization. The backwash icon for the M type V type L type principle is basically the same.





1.Import
2.Export
3.Mesh
4.Drilling Network
5.Hydraulic Motor Chamber
6.Suction Nozzle
7.Collecting Rod
8.Hydraulic Motor
9.Piston rod
10.Piston
11.Sewage Outlet

SPECIFICATION

Model	Technical parameters										Material	
	Capacity (m^3/h)	Inlet/ outlet diameter	Filtration area (cm^2)	Weight (kg)	Max work pressure (bar)	Min work pressure (bar)	Controller/ pressure difference switch/ solenoid valve (ISRAEL)	Filtration accuracy (μm)	Work temperature (℃)	Connection type	Tank material	Screen material
FSNV2E	25	2"	1317	31	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNV3E-A	40	3"	1317	35	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNV3E-B	50	3"	1975	40	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNV4E	70	4"	1975	45	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNL4E-A	80	4"	2634	60	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNL4E-B	100	4"	3951	65	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNL5E-A	140	5"	3951	67	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNL5-B	150	5"	5268	75	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNL6E	180	6"	5268	85	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNM4E-A	80	4"	2634	72	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNM4E-B	100	4"	3951	83	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNM5E-A	140	5"	3951	85	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNM5-B	150	5"	5268	92	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNM6E-A	180	6"	5268	95	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNM6E-B	220	6"	7902	135	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNM8E	320	8"	7902	142	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
FSNM10E	380	10"	7902	154	8	2.5	BACCARA	120	0 ~ 60	Flange	Carbon steel	SS304
Surface treatment and coating	Matrix shot blasting electrostatic spraying powder Coating thickness ≥120μm											