

ROTOCLEAN STRAINERS

Efficient Filtration. Reliable Protection. Seamless Irrigation.

Protect your pumps and footvalves from debris, trash, and physical impurities with Rotoclean Strainers—self-cleaning filters designed for use at the suction side of surface pumps. Manual cleaning of jammed footvalves is a thing of the past. With Rotoclean, you ensure efficient performance, reduced maintenance, and prolonged system life.

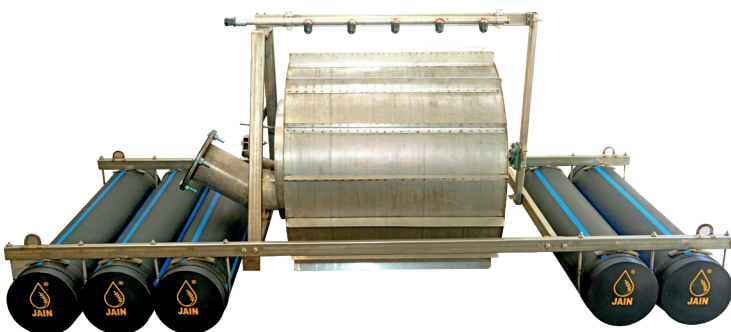


Protect Your System Before Problems Begin. Choose Rotoclean.

Why Choose Rotoclean?

- Prevents footvalve and impeller clogging
- Saves time and labor
- Improves overall pump efficiency
- Acts as a pre-primary filter for drip and sprinkler systems

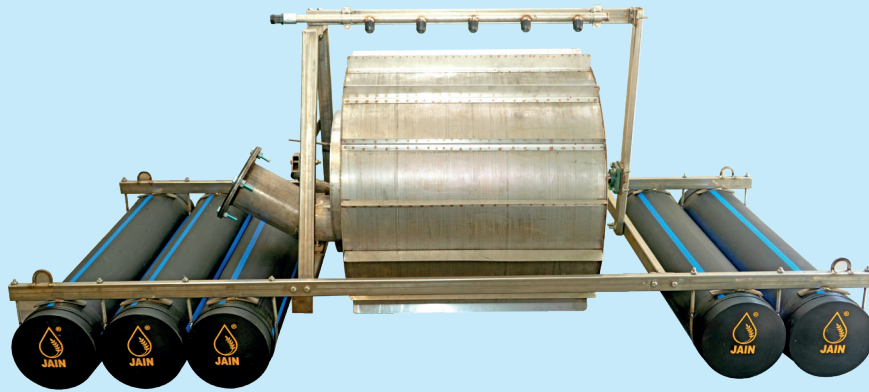
Available Models:



FTF – Floating Type Filter



STF – Submersible Type Filter



Rotoclean Strainer-FTF

Rotoclean Strainer - FTF is a Self cleaning rotating drum strainer for pump & system protection with the ability to draw from shallow water sources.

Material

Screen - Stainless steel

Body - Stainless Steel

Foot Valve - PVC

Pontoon Material: HDPE

Rubber - Nitrile/ EPDM

Features

- Suitable for drawing as little as 100 mm of water depth
- Alloy & stainless steel construction.
- Large range of flow capabilities to 250 lps Large intake funnel.
- Built in Foot valves
- Environmentally friendly design.
- Standard flow for power drive nozzles 0.37 L/S
- Standard flow for cleaning nozzles 0.37 L/S
- Degree of Filtration : Standard - 18 mesh (1000 micron), 10 Mesh (2000 micron) available on demand.

Applications

- River
- Dams
- Irrigation Systems
- Town water supply and grey water pumping.
- Shallow water execution (prevents sand and silt problems).
- Effluent Ponds.
- Canal
- Water Extraction
- Pivot

Benefits

- Ability to provide filtered water when operating in depths as shallow as 100mm.
- Genuine self-cleaning screen.
- Low maintenance reducing downtime
- Lightweight construction.
- Effective removal of debris and matter including algae
- Consistent water supply to pump

Working

Rotoclean Strainer - FTF is the ideal solution for any operation that depends on a water supply containing suspended debris. Born out of necessity by a farmer and irrigator who designed and developed a solution for his ever blocking irrigation suction line, Rotoclean Strainer - FTF is simple in its design and foolproof in its operation.

The Design

The water intake port is surrounded by a rotating drum-shaped screen. A lightweight SS frame and HDPE pontoon provides flotation for the unit. The stainless steel rotating screen is self-cleaning, with a row of spray nozzles mounted inside the drum spraying water outwards through the stainless steel mesh screen. The cleaning nozzles are set up to spray downstream to ensure debris floats away from the RotoClean Strainer Filter, this highly effective system ensures that the screen remains clean around the water intake port. Rotoclean Strainer - FTF can be operated in a range of water sources including rivers, streams, dams and canals and is ideal for use on irrigation systems; including drip irrigation and pivots, as well as town water supply and grey water pumping. The rotating screen is designed to turn easily and in many cases can rotate with only the assistance of the current of the river or stream, however all Rotoclean's are supplied with a power drive system. The power drive consists of a row of spray nozzles mounted on the frame with the spray directed at a horizontal channel fixed to the drum screen providing rotation. Both the power and the cleaning nozzles are adjustable and can be set up to operate on either side of the screen. Rotoclean has been designed specifically to operate in shallow bodies of water. The unique design allows the unit to be used in as little as 100 mm of moving water. The shallow operation capability means that as long as the drum can rotate, the screen will provide filtered water to the intake without cavitation and without drawing in sand and silt. RotoClean's large intake funnel substantially reduces the velocity of water entering the drum eliminating the possibility of sand

and silt being drawn into the intake port. Ultimately this means less pump wear, fewer blockages of sprinklers and less system downtime. RotoClean Strainer has an environmentally friendly design – the rotating screen prevents small fish and other water dwelling species from being drawn into the suction port. The unit itself does not utilise noxious coatings or lubricants and will not oxidise or release any harmful materials into the water source.

Maintenance Free

Being a pivotal part of the pump system, RotoClean has been designed for maintenance free operation. The stainless steel components will not rust or corrode and the drum rotates on nylon rollers with stainless steel bearings.

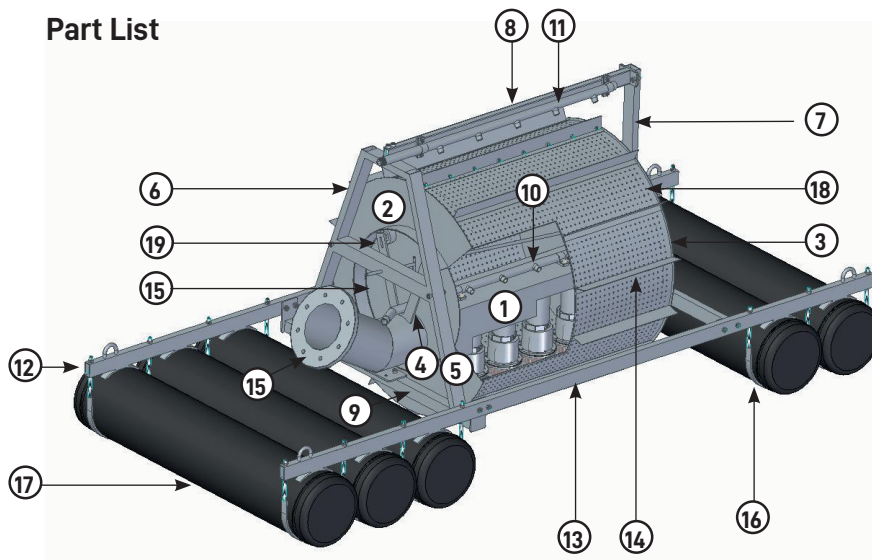
Available sizes

RotoClean is available in a variety of sizes to accommodate suction lines from 3" through to 12".

Sizes		Flow Rate		Drum Size	Pontoon Size	Gross Weight
mm	Inch	m3/hr	lps	mm	mm	kg
80	3	50	14	D - 406 X L - 405	D - 125 X L - 1340	61
100	4	60	17	D - 406 X L - 609	D - 180 X L - 1210	108
150	6	182	51	D - 812 X L - 914	D - 250 x L - 1200	120
200	8	285	79	D - 812 X L - 1219	D - 250 x L - 1300	155
250	10	571	159	D - 812 X L - 1219	D - 250 X L - 1300	160
300	12	915	254	D - 812 X L - 1319	D - 280 X L - 1300	172

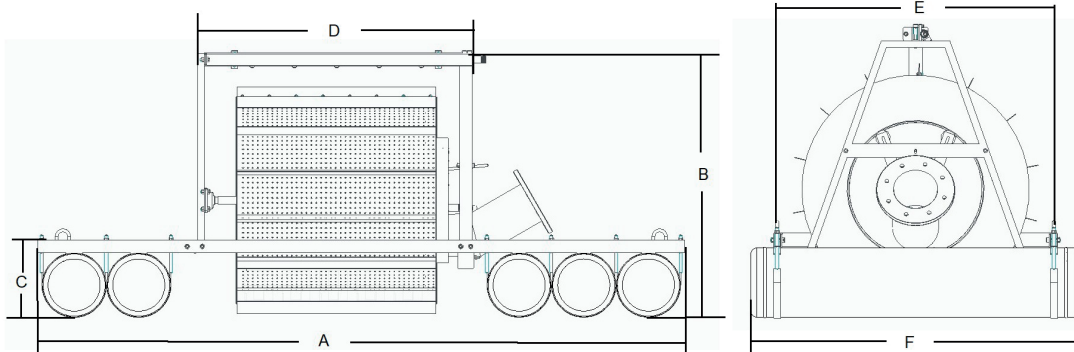
Note: Pontoon size can be customized as per the site requirements

Part List



Sr.	Description
1	SUCTION FUNNEL
2	DRUM PLATE- A
3	DRUM PLATE- B
4	WHEEL BRACKET
5	WHEEL ASSEMBLY
6	FRONT SIDE A- FRAME
7	BACK SIDE I- FRAME
8	DRUM SUPPORT I- FRAME
9	DRUM SUPPORT RAIL
10	CLEANING SPRAY BAR
11	SPRAY BAR
12	LEFT SIDE RAIL
13	RIGHT SIDE RAIL
14	SCREEN MESH ASSEMBLY
15	INLET CONNECTION
16	HANGER PLATE
17	PONTOON STRAP
18	PONTOON
19	1" BEARING W/BLOCK (F205)
20	BALL BEARING (6202-2Z)

Dimensional Specifications



SR NO.	SIZE	A mm	B mm	C mm	D mm	E mm	F mm
1	3"	1340	640	220	645	545	1000
2	4"	1920	680	260	855	545	1200
3	6"	2600	1055	310	1103	1010	1200
4	8"	3000	1055	310	1503	1010	1300



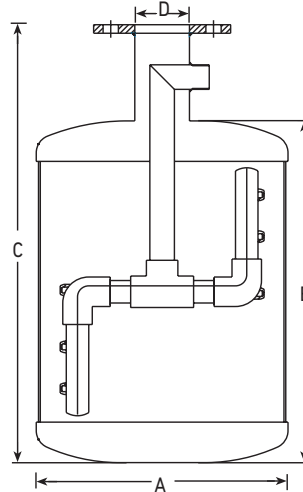
Rotoclean Strainer - STF (Submersible Type Filter)

Rotoclean Strainer - STF is suitable for deep wells or where water intake is from the depth. This filter gets submerged in the water. There are rotating cleaning nozzles which push the trash away from the strainer and keeps the strainer clean. It prevents blocking of the footvalve.

Features

- Protects pump and piping system damage and clogging due to physical impurities.
- Self cleaning suction filter.
- Hydraulically Powered Cleaning Nozzles
- Suitable for drawing water from depth
- Remains submerged in the water (Minimum water depth 600mm)
- Strong and robust construction. Constructed from mild steel body and stainless steel screen. Stainless steel body can be supplied on demand.
- Strong metal ribbed supported screen to avoid collapse due to suction pressure.
- Environmentally friendly design. Keeps the fish away from entering the suction pipe.
- Flushing of screen using filtered water. Special provision of 3/4" screen filter to avoid plugging of nozzles.
- Low frictional loss across the filter.
- Available in standard screen size of 400 micron. Other screen size can be supplied on demand.
- Available from 25 m³/hr to 80 m³/hr flow capacity.
- Maintains constant flow rate.
- Helps to improve system efficiency by reducing load on the micro irrigation filters.
- Low maintenance. Does not require frequent removal of suction pipe or cleaning of foot valve.

Dimensional Specifications



Nominal flow		A	B	C	D
m ³ /hr	gpm	mm	mm	mm	inch
25	95	250	300	450	2.5"
40	151	280	380	485	2.5"
50	189	316	500	620	3"
80	303	316	500	630	4"

Note: IFV – Jain Foot Valve, MFV – Metal Foot Valve

- Minimum operating pressure for spray rotors is 1 kg/cm² (14 psi).
- Available in 2½", 3" and 4" sizes with or without foot valve. Please specify the foot valve option while ordering.
- Standard end connections are BSP flanged. Please specify for other end connections.

Working of Rotoclean Strainer - STF

Water enters through Rotoclean Strainer - STF leaving the debris trapped on the screen. It then passes through footvalve and suction pipe and finally enters the pump impeller. Water gets pressurised after the pumping. Part of this pressurised water is returned back to the Rotoclean Strainer. It passes through a screen filter so as to prevent plugging of the cleaning nozzles. Water under pressure sprays on the strainer to push the debris away at the same time due to water pressure and design of the nozzle structure, nozzles start spinning inside the strainer. It keeps spinning and cleaning the entire strainer continuously till the pump is in running condition.



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