



RIVERSCREEN™

ROTATING SUCTION SCREENS



SOLUTIONS FOR CHALLENGING SUCTION APPLICATIONS

Riverscreen is the ideal solution for any operation that depends on a water supply containing suspended debris. Riverscreen was born out of necessity by a farmer and irrigator who designed and developed a solution for his ever-blocking irrigation suction line. Riverscreen is simple in its design and foolproof in its operation. The water intake port is surrounded by a rotating drum-shaped screen. A lightweight aluminium frame and 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 304 stainless steel #8 mesh screen. The cleaning nozzles are setup to spray downstream to ensure debris floats away from the Riverscreen, this highly effective system ensures that the screen remains clean around the water intake port.

Riverscreen 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 Riverscreen'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 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.

Riverscreen has been designed specifically to operate in shallow bodies of water. The unique design allows the unit to be used in as little as 100mm 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.

Riverscreen's large intake funnel substantially reduces the velocity of water entering the drum eliminating the possibility of sand and silt being drawn in to the intake port. Ultimately this means less pump-wear, less blockages of sprinklers and less system downtime.

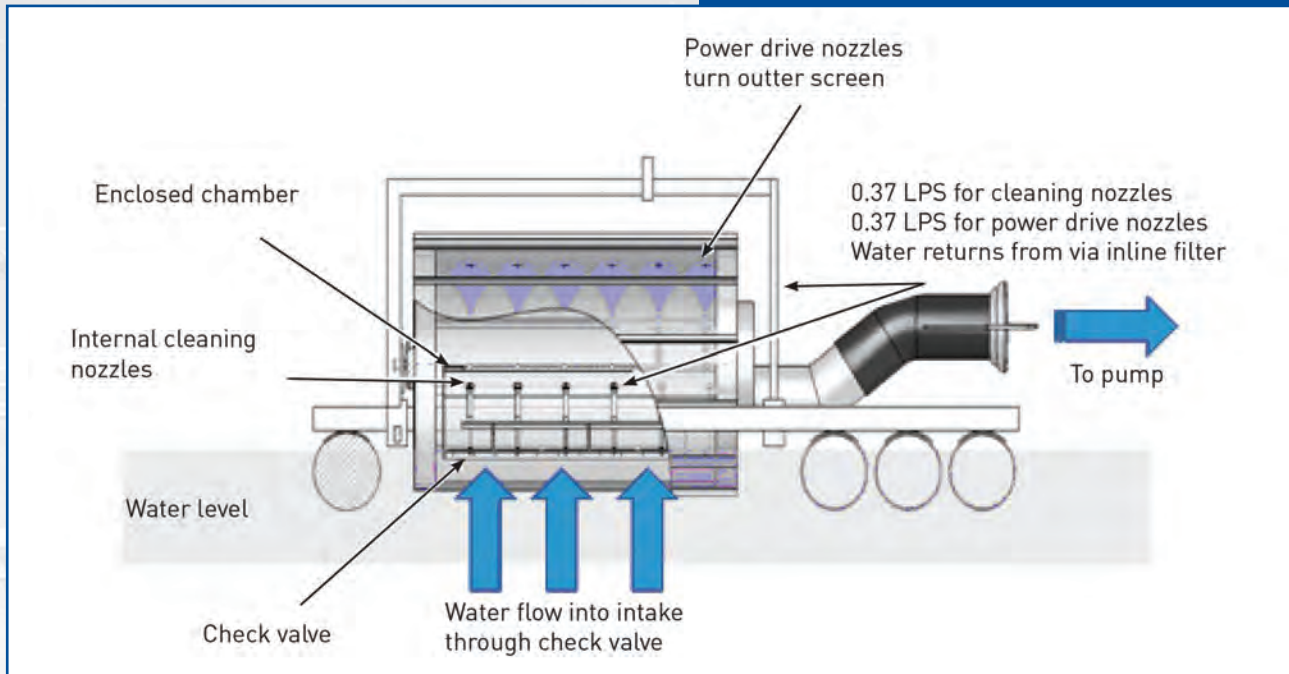
Being a pivotal part of the pump system, Riverscreen has been designed for maintenance free operation. The stainless steel and aluminium components will not rust or corrode and the drum rotates on nylon rollers with marine quality stainless steel bearings.

Riverscreen is available in a variety of sizes to accommodate suction lines from 100mm through to 300mm. With pumping capacities ranging from 6 litres per second for the 100mm unit all the way up to 250 litres per second for the 300mm unit there is a Riverscreen to suit almost every application.

Riverscreen is fitted with check valves allowing operators to prime non-vacuum type pumps. A pressure relief valve is also fitted as standard.

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Riverscreen 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 in to the water source.

FEATURES:

- Range of sizes to suit various flow capacities
- Strong, lightweight aluminium and stainless steel construction
- Pressure relief valve
- Drain valve
- Check valves
- Power drive

BENEFITS:

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

OPTIONS:

- Electric motor driven drum screen
- Various nozzles for higher and lower flows and pressures

SPECIFICATIONS FOR ALL MODELS:

- Models – 100mm, 150mm, 200mm, 250mm, 300mm
- #8 mesh (2.3mm punch) standard on drum screen
- Intake velocity @ 0.027 M/S
- Draws from more than 3.25m² of screen area
- Cleaning nozzles 1 x 8020 and 8015 tips
- Standard flow for cleaning nozzles 0.37 L/S
- Power drive nozzles 3.3mm
- Standard flow for power drive nozzles 0.37 L/S



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