

**IRRIGATION FILTRATION**



PATENTED PROTECTION FROM SAND & ABRASIVE WEAR



# Extend the life of your pivots and pumps

Good water quality is important for irrigation systems, and ensures maximum efficiency and longevity of all components.

Zimmatic filtration products are the most environmentally efficient method for removing solids from liquids. Sand Separators and Specialty Filters:

- Extend pivot, sprinkler, end gun and booster pump life
- Help maximize irrigation uniformity and performance
- Reduce other waste, including solids being filtered

For more than 40 years, LAKOS, a Lindsay company, has provided patented separators and filtration solutions to maximize water flow, reduce waste, and prevent premature equipment wear.

Our commitment to continuous innovation has resulted in a range of products that continue to evolve to meet the world's ever-demanding filtration needs.

# Sand Separators SCP



## Patented technology

Sand creates serious challenges for irrigation systems since plugged or worn nozzles can dramatically affect performance. Zimmatic® Sand Separators for Center Pivots (SCP) Powered by LAKOS™ technology, employ centrifugal action to remove settleable sand, grit and scale from pumped water – extending pivot, sprinkler, end gun and booster pump life.

The patented Sand Separators are rated to remove 98% of all sand-like particle matter down to 200 mesh (74 microns) with 2.6 specific gravity and larger in a single pass.

- Swirlex™ slots accelerate centrifugal action for optimum performance
- Enhanced Vortube™ enhances solids separation

## Variable flow systems

For variable-flow pumping systems, two or more separators can be manifolded together and controlled via pressure/flow-sensing instrumentation.

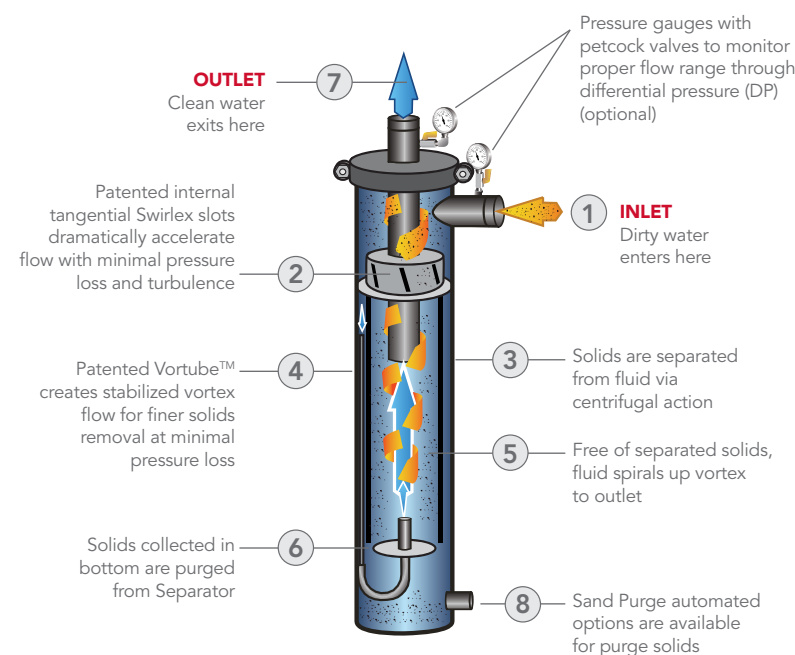
## Independently tested for rugged performance

Zimmatic Sand separators have been tested by the International Center for Water Technology (ICWT), confirming the performance and capability to remove troublesome particle matter from pumped water.

### KEY FEATURES & BENEFITS

- No moving parts to wear out, eliminating costly downtime and replacement parts
- Low and steady pressure loss of 2 - 6 psi (.137 - .413 bar)
- Space-saving low profile design to fit any installation limitations
- Minimal water loss
- No backwashing
- Purge cycle can be automated, eliminating system depressurization, routine maintenance and downtime

### HOW IT WORKS



FLOW RANGE	210-2050 U.S. gpm (48 to 465 m³/hr)
MAXIMUM WORKING PRESSURE	150 psi (10.3 bar) at 180° F (82° C)
PRESSURE LOSS	2 - 6 psi (.137 - .413 bar)
MAXIMUM PARTICLE SIZE	.375 inches (9.5 mm)



International Center for Water Technology (ICWT) is an independent testing laboratory dedicated to advancing water management practices and irrigation technology.

# Pump Protection Separators PPS

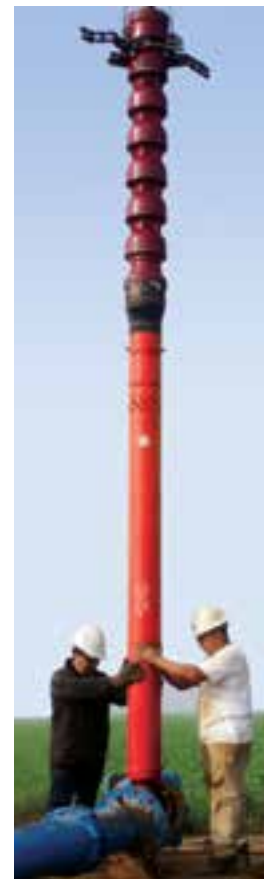
## Safeguards your in-well pumps from abrasive sand

Zimmatic Pump Protection Separators (PPS) remove sand and grit that can threaten the performance and shorten the life of a submersible or turbine water well pump.

Using a patented centrifugal design, PPS control sand from entering the pump inlet before it can damage impellers, bearings, and other pump components. This keeps the pump operating at maximum efficiency while discharging separated sand deep into the well.

## Maintenance-free design

Made of durable carbon steel, PPS are designed without moving parts to wear out, and without screens or filter elements to clean and replace.

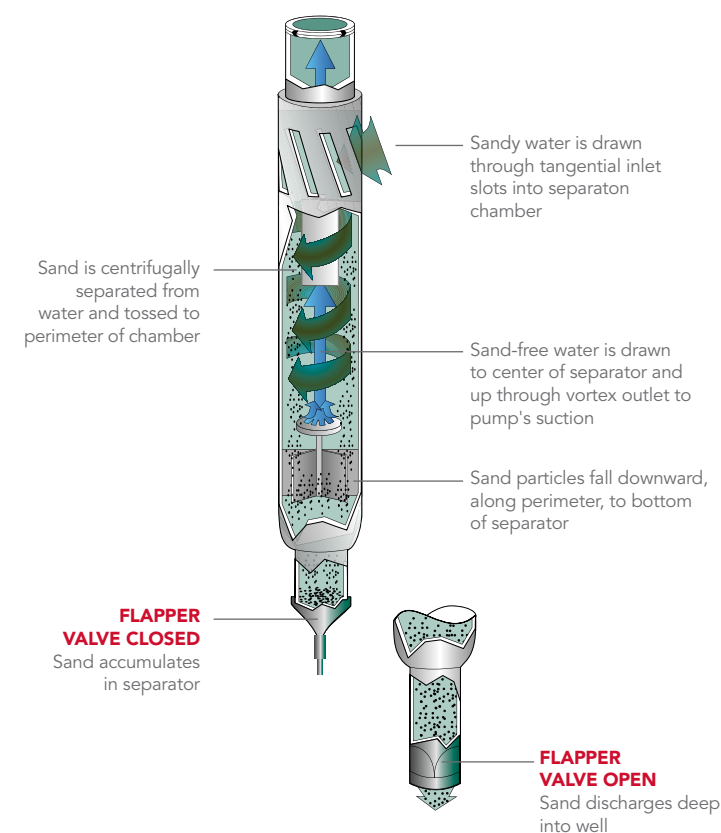


PPS during installation

### KEY FEATURES & BENEFITS

- Reduce pump wear, repair and replacement
- Extend pump life by four times or more
- Help maintain optimum pump yield
- Save on energy costs through higher operating efficiency
- Minimize critical pump breakdowns
- Reduce the burden on other filtration and treatment process

### HOW IT WORKS



FLOW RANGE	100 - 3,180 gpm (23-723 m³/hr)
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# Pump Intake Screens PC

## The open source water self-cleaning solution

Zimmatic self-cleaning pump intake screens (PC) protect pumps and other water systems components from surface water organics and debris.

The screens provide continuous defense against impeller clogging, lost suction, and pump wear. The rugged, reliable internal backwash system blows debris off of and away from the screens, permitting water to flow freely to the pump. Other screens use a rotating spray bar and fixed position

screen, losing spray energy to rotate the spray bar. Zimmatic employs a fixed spray bar, maximizing the water-energy's cleaning action while the screen slowly rotates to continuously clean the entire screen surface.

## Energy savings

PC Screens helps maintain pump efficiency, reducing the need for longer pumping cycles to deliver the required water volume.



## Wide range of applications

Rivers, effluent ponds, sumps, lakes, ponds, irrigation ditches, re-use pits, streams, tanks, canals, and more.

### KEY FEATURES & BENEFITS

- Protect pumps and save energy by maintaining pump efficiency
- No manual cleaning or routine shutdowns
- Protect the surrounding environment from pump intakes
- Constructed of durable reinforced fiberglass and stainless steel

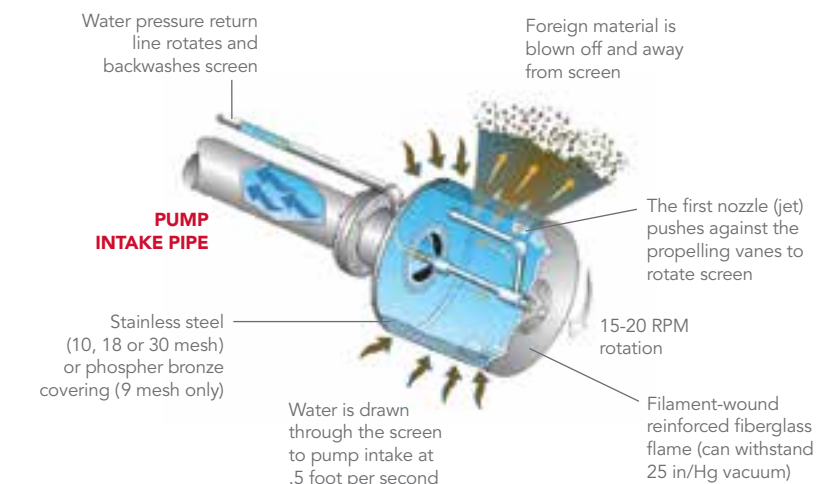
### HOW IT WORKS



PC screens are designed for use in open source surface water applications.



**ROTATING SCREEN**  
Fixed-position spray bar and rotating screen maximizes cleaning action. No external power required.



FLOW RANGE	50 - 2,400 gpm (11-545 m³/hr) per unit
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## The Lindsay Advantage

Lindsay offers proven systems and products that are built to be strong, long-lasting, durable and easy to use for growers who need highly efficient irrigation solutions. These systems can be enhanced with a family of integrated plug-and-play add-ons.

Growers around the world rely on Lindsay's innovative technology support by a network of knowledgeable dealers to add value, reduce risk and take full advantage of every growing season.

**To learn how Zimmatic filtration products can make your operation more profitable, visit [www.zimmatic.com](http://www.zimmatic.com) or contact your local Zimmatic® by Lindsay dealer.**



### THE LINDSAY ADVANTAGE

DURABLE • RUGGED • EASY TO USE • INTEGRATED TECHNOLOGIES •  
BROADEST LINE OF SOLUTIONS



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