Sand Separators

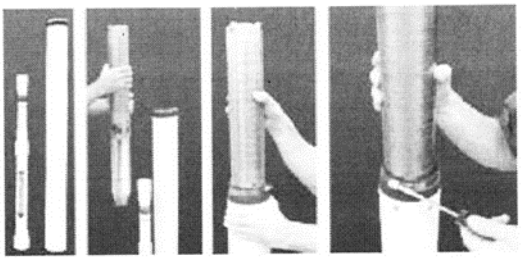
Removes troublesome sand from the water before it enters the pump.

Defend your submersible pump and water system from the abrasive, damaging and costly effects of sand with a LAKOS Pump Protection Separator. Using controlled centrifugal action, troublesome sand is removed from the water before it enters the pump, reducing wear to impellers and other vital components in the pump.

LAKOS Separators are manufactured using state-of-the-art injection molding techniques and industrial strength composite materials. The separator features no moving parts to wear out, no screens or filter elements to clean or replace, and requires no routine maintenance.

Each separator includes a drawdown seal that attaches to the pump outlet and sub-seal which attaches to outlet of separator.

- Sandy water is drawn through tangential inlet slots into separation chamber.
- Sand is centrifugally separated from water and tossed to perimeter of chamber.
- Sand free water is drawn to center of separator and up through vortex outlet to the pump's suction point.
- Sand particles fall downward along perimeter to bottom of separator.
- Flapper Valve opens and closes to control discharge of separated sand deep into well.



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Do I Need a Sand Separator?

Pumping water from wells with excessive amounts of sand, silt, or other abrasive grit particles can lead to the premature degradation of well system components. Sand destroys your fixtures, appliances and plumbing. Remove sand easily and effectively without having to change filters by installing our separator.

How Does It Work? Where Does the Sand Go?

The Lakos separator is designed to prevent excessive sand from damaging a pump. Unchecked, sand wear can cost significant time and money. Our separator offers a more cost-effective alternative to replacement of expensive pumps.

Separated sand is periodically discharged deep into the well. The natural flow of the aquifer serves to evacuate much of the sand to prevent troublesome build-up. A study by Ohio State University revealed that the accumulation of some sand by a pump protection separator actually changes the inflow of water into the well, creating a state of equilibrium that drastically decreases the flow or further sand into the well.

- Dramatically reduces sand wear
- Extends the pump's life by four times or more
- Controls excessive efficiency loss and energy costs
- Minimizes breakdowns and replacements
- Reduces downstream filtration burden