LAKOS Low Pressure Sand Separators
Filtration for Sprinkler Irrigation Systems

- LAKOS Low Pressure Sand Separators employ centrifugal action to remove sand, silt and other sediment from pumped water.

- With a low and steady pressure loss of 2-6 psi, the LAKOS Low Pressure Sand Separator is designed specifically for low pressure irrigation systems.

- Flow ranges from 200gpm (45 m³/hr) to 1300gpm (295 m³/hr).

- Performance-rated to remove 98% of all sand-like particle matter 200 mesh (74-micron, 2.6 specific gravity) and larger.

- With no moving parts to wear out, mechanical failures are eliminated and there is no need for replacement parts.

- New patented features—Swirlex™ internal accelerating slots for optimal performance and enhanced Vortube™ for improved solids separation/collection.

- LAKOS Separators require no backwashing; periodic purging (automatic or manual) eliminates downtime and routine maintenance.

- Third-party tested and documented:

Good water quality and management is important for irrigation systems. Poor water quality can affect the longevity of the entire irrigation infrastructure.

Low pressure irrigation systems are engineered to provide a high level of precision in the delivery of water - precision in both the amount of water as well as the spray pattern.

Sand creates serious challenges for center pivot and linear/lateral move irrigation systems. Plugged or worn nozzles can dramatically change the amount of water and spray pattern delivered.

With a pressure loss of only 2-6 psi, the LAKOS Low Pressure Sand Separator can remove troublesome sand, silt and other particles from the supply water and help prevent underwater and/or over watering by preventing spray nozzles from clogging, plugging or wearing.

The LAKOS Low Pressure Sand Separator ensures that precision engineered low pressure irrigation systems operate as designed.

- Same reliable performance of current LAKOS IHB design at half the pressure loss - only 2-6 psi.

- Flow Range: 200 - 1300 gpm (45 m³/h - 295 m³/h)

- Maximum Pressure Rating: 150 psi (10.3 bar)

LAKOS Separators and Filtration Solutions
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LAKOS Separators are manufactured and sold under one or more of the following U.S. Patents: 5,320,747; 5,338,341; 5,368,735; 5,425,876; 5,578,203; 5,622,543; 5,653,874; 5,894,995; 6,090,276; 6,143,175; 6,167,960; 6,202,543; 7,000,782; 7,032,760 and corresponding foreign patents, other U.S. and foreign patents pending.
How It Works

1. **INLET**
   - Dirty water enters here

2. Patented internal tangential Swirllex Slots™ dramatically accelerate flow with minimal pressure loss and turbulence

3. Solids are separated from fluid via centrifugal action

4. Patented Vortube™ creates stabilized vortex flow™ for finer solids removal at minimal pressure loss

5. Flow of separated solids, fluid spirals up vortex to outlet

6. Solids collected in bottom are purged from Separator

7. **Outlet**
   - Clean water exits here

8. Automated options are available for purge solids

For More LAKOS Irrigation Solutions