

SAMPLE SPECIFICATIONS  
ILB SERIES - LAKOS Separators

Separator Type & Performance

The removal of specific unwanted solids from a pumped/pressurized liquid system shall be accomplished with a centrifugal-action vortex separator. Solids removal efficiency is principally predicated on the difference in specific gravity between the solids and the liquid. Performance is expected to be 98% removal of 74 microns and larger, with significant particle removal of finer particles also likely.

Performance Requirement

Separator performance must be supported by published independent test results from a recognized and identified test agency. Standard test protocol of upstream injection, downstream capture and separator purge recovery is allowed with 50-200 mesh particles to enable effective, repeatable results. Single-pass test performance must not be less than 95% removal. Model tested must be of the same flow-design series as specified unit.

Separator Design & Function

A tangential inlet and mutually tangential internal accelerating slots shall be employed to promote the proper velocity necessary for the removal of the separable solids. The separator's internal vortex shall allow this process to occur without wear to the accelerating slots.

Separated particle matter shall spiral downward along the perimeter of the inner separation barrel, in a manner that does not promote wear of the separation barrel, and into the solids collection chamber, located below the vortex deflector stool.

System liquid shall exit the separator by following the center vortex in the separation barrel and spiral upward to the separator outlet.

Purging (specified option only)

Evacuation of separated solids shall be accomplished automatically, employing a timer-activated motorized ball valve. Straight-through valve design, with bronze valve body (also available optionally as a stainless steel valve body) and stainless steel ball in a teflon seat. NEMA 4 housing for indoor or outdoor installation. Valve size: \_\_\_\_\_

Separator Details

- A. Inlet & outlet shall be male, NPT (other options available), size: \_\_\_\_\_
- B. Purge outlet shall be male, NPT (other options available), size: \_\_\_\_\_
- C. The separator shall operate within a flow range of: \_\_\_\_\_
- D. Pressure loss shall be between 5-12 psi (0.3-.8 bar), consistent with the above flow range.

Separator Construction

The separator shall be fabricated of carbon steel (stainless steel is optional) with shell material and head material of 0.135 inch wall or better. Maximum operating pressure shall be 150 psi (10.3 bar), unless specified otherwise.

Paint coating shall be acrylic urethane, spray-on, royal blue.

Separator Source & Identification

The separator shall be manufactured by LAKOS Filtration Systems, a division of Claude Laval Corporation in Fresno, California USA. Specific model designation is: \_\_\_\_\_