VorSpin Hydrocyclones

Hydrocyclones use the centrifugal separation principle to remove or classify suspended solids in a slurry.

The VorSpin Hydrocyclone features three improvements in hydrocyclone efficiency: 1) A Involute feed inlet, 2) A Bell-shaped Vortex Finder and 3) a Non-plugging discharge Apex nozzle.

The Involute feed inlet prevents the slurry from recirculating into the path of the incoming slurry, causing undesirable turbulence that reduces separation efficiency.

The Bell-shaped Vortex Finder accelerates the incoming slurry as it swirls downwards, causing a rapid separation of the suspended solids. This also prevents larger particles from "short circuiting" and reporting out the Vortex Finder with the cleaned liquid phase.

The combined geometric features generate a high G-Force that will provide an efficient d50 cut point of 5 mm.
Circular Manifold Arrangement
Provides equal pressure to each VorSpin Hydrocyclone

Primary Applications
- Barite Recovery in weighted drilling fluids.
- Removal of low gravity solids in unweighted drilling fluids

Model AZ-VS-U-2-12
360 GPM @ 40 PSI (92ft/nd)