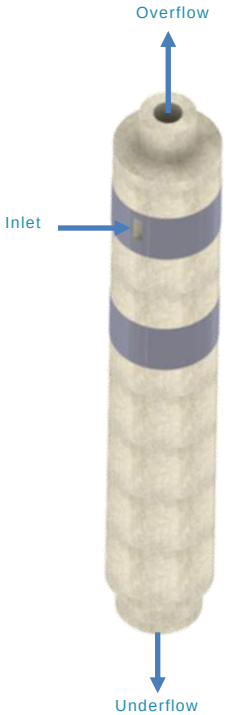
# Solid – Liquid Hydrocyclone

JCI's solid–liquid hydrocyclones utilize centrifugal forces to separate solids from liquid in an ultra-compact vessel arrangement. The fluid is introduced tangentially into the hydrocyclone body creating a strong swirling motion, which separates solids with thousands of times more force than gravity. The fluid in the center of the swirling flow is substantially free of solids and exits through the top of the hydrocyclone, commonly referred to as the overflow, while solids exit through the bottom. Since there are no moving parts, you don't have to worry about service for rotating equipment or performance variation.

JCI stocks several sizes of Solid-Liquid Hydrocyclones. Depending on the application, solid particle size distribution, and desired separation efficiency, JCI's applications group will ensure the hydrocyclone selection is suitable for your application. Solid-liquid hydrocyclone liners are typically manufactured from advanced ceramics such as 97.5% alumina, ensuring excellent wear resistance to maximize the life of the liner in high abrasive services. Other materials are also available, contact JCI to discuss your application.


## APPLICATIONS:

- Wellhead Solids Control
- Well Injection Pre-Treatment
- Sand Erosion Control
- Media Filter Life Elongation
- Chemical Injection Reduction
- Compact Filtration Requirements




## ADVANTAGES:

- High Efficiency Separation
- Extremely resistant to wear
- Compact design
- Very low maintenance
- Proven technology

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