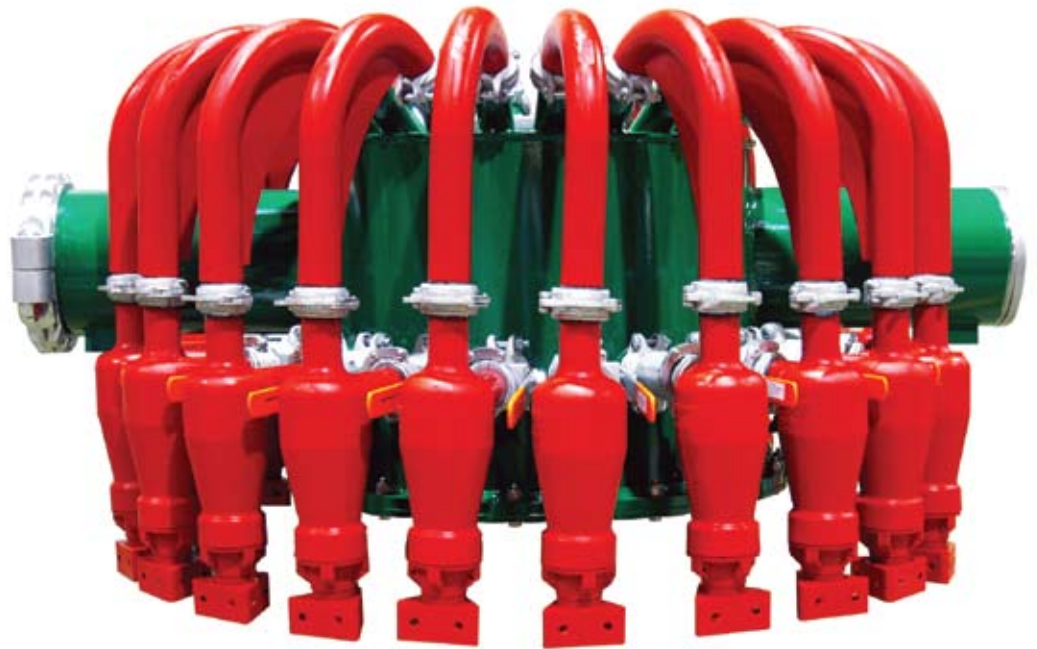




# Round Desilters



*Circular Manifolds for Uniform  
Pressure Balance Operation*

# Derrick Round Desilters

Derrick round desilters are designed to efficiently remove silt sized solids (12-74 microns) from plant discharge slurries. Derrick desilters are easier to operate and maintain, making them last more than twice as long as conventional desilters.

One of the major advantages of Derrick round desilters is the Derrick 4" hydrocyclone, which are manufactured using a specially formulated EU polyurethane that has excellent resistance to heat and abrasion. Its unique lightweight uni-body construction eliminates excess parts and seams where excessive wear can occur. Derrick manufactures two 4" cones with different internal geometries - with and without a ramp in the feed inlet. The circular pipe feed is smoothly reformed into a rectangular feed. This rectangular ramp feed enters the cone tangentially minimizing turbulence in the upper portion of the cone allowing the solids to quickly move to the wall of the hydrocyclone. The ramp feed cone has a capacity of 80 GPM at 75 feet of head and is primarily used if the cone underflow is over a dewatering screen. Derrick hydrocyclones are available with ceramic inserts for extreme duty.

Shut-off valves on each cone inlet permit individual cone removal and inspection without interrupting operation of the desilter. If oversized solids plug the underflow simply unscrew the replaceable wear section (bottom third) clean and replace. Service and replacement of the bottom cone section is made quick and easy by A.N.S.I. buttress threaded bottom sections. The apex is available in two styles: an adjustable tri-nut or fixed snap-on.

## Features:

- Available in 10, 12, 16, and 20 cone models
- Uniform pressure balance operation through round design
- Shut-off valves on each cone inlet
- Vacuum breaker connection
- Low cost polyurethane and ceramic cone engineered to minimize plugging and maintenance
- Accessible pressurized section of manifold to allow for liner maintenance



**Underside of  
Round Desilter Manifold**



**4" Hydrocyclone  
Body**



**Body  
Ceramic Liner**



**Cone Tip**



**Cone Tip  
Ceramic Liner**



**Drop-in Apex**



**Triangular Nut**



An Integral Part of the High **G** Solution®

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