



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 drilling fluids. 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 and is primarily used if the cone discharge is over a shaker/mud cleaner. The 4" cone without the ramp feed is typically used on stand-alone desilters, when liquid conservation is of prime importance. This cone has a capacity of 70 GPM at 75 feet of head. 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.



Shut-off Valve

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
- Controls mud properties by removing silt sized solids
- Increases penetration rate
- Lowers mud costs
- Low cost polyurethane cone engineered to minimize plugging and maintenance
- Reduces mud loss with adjustable or interchangeable apexes



4" Hydrocyclone



Tri-nut Apex



Snap-on Apex

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



15630 Export Plaza Drive • Houston, Texas 77032
Toll Free: (866) DERRICK Phone: (281) 590-3003 • Fax: (281) 442-6948
www.DerrickEquipment.com

