



## HYDROCYCLONE



### "AIISHIL" HYDROCYCLONE

Hydrocyclone is a device to classify, separate or sort particles in a liquid suspension based on the ratio of their centripetal force to fluid resistance.

Hydrocyclones also find application in the separation of liquids of different densities. A hydrocyclone will normally have a cylindrical section at the top where liquid is being fed tangentially, and a conical base.

Hydrocyclone has two exits on the axis: the smaller on the bottom (underflow or reject) and a larger at the top (overflow or accept). The underflow is generally the denser or coarser fraction, while the overflow is the lighter or finer fraction.

Hydrocyclones are used in continuous flow systems so that the instantaneous liquid inflow to the hydrocyclone is equal to the total instantaneous outflow of "lights" plus "heavies". Hydrocyclones in mineral processing are used extensively to classify particles for recirculation in grinding circuits and to differentiate between the economic mineral and gangue. It is also used for desliming, desanding and dewatering purposes. in mineral processing.

The whole unit is mounted on a MS structure duly painted,  
Mono/ centrifugal pump , Sump Tank, By pass valves, pressure control.

FLOW RANGE:

9-15  
15-33  
33-53  
48-75  
80-150  
150-230  
230-360  
430-700  
615-1000  
1000-1600

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