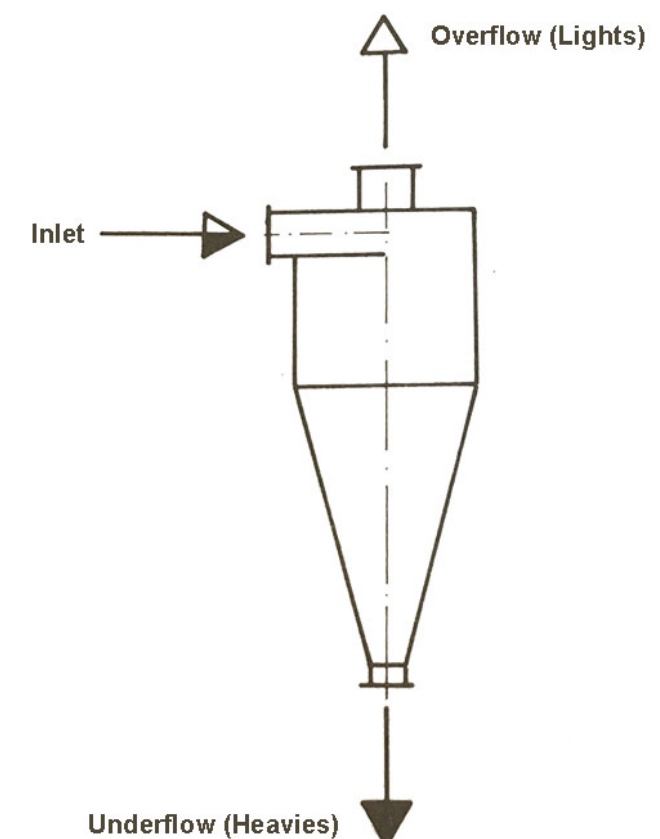


The **hydrocyclone** (also known as the cyclone) spins the slurry and separates it into coarse and fine material.

The coarse material is called **underflow** and spirals downward. Underflow can contain free gold, and some of it is sent to the gravity circuit to separate out any free gold. However, the hydrocyclone cannot tell which coarse material contains free gold, so the majority of underflow goes to the ball mill for further grinding.

The fine material spirals up and is known as the **overflow** and requires a chemical process to separate the gold.



Above: Diagram of cyclone
Souce: ChemIndustrial Systems, Inc.

Left: Hydrocyclone has four cyclones and the direction of the feed of slurry is marked on the pipes