



# 60L Settling Cone

# **Operation and Maintenance Manual**

 60L Settling Cone Operating Manual Issue 1
 1

 Manufacturing:
 20 Cardrew Trade Park, Cardrew Way, Redruth, Cornwall, TR15 1SW, UK

 Company No: 9333432
 VAT No: 235774584

 EORI No: GB235774584000

Gravity Cyclones is a division of Gravity Mining Ltd. <u>www.gravitymining.com</u>, <u>www.gravitycyclones.com</u>, sales@gravitymining.com



## **Parts Supplied**

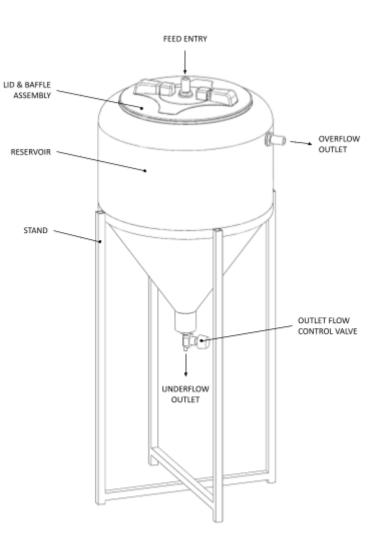
- Reservoir Assembly
- Stand

## Assembly

- 1. Fit the reservoir assembly to the stand.
- 2. Tighten the fitting ring using the fixings provided.

#### **Care Points**

- Always wear appropriate safety equipment.
- Only suitable for use on a flat hard floor.
- Only suitable for use with water based slurries.
- Entry flow rate must always be greater than underflow flow rate.
- Blockage can occur if the underflow flow rate is too low.
- Not suitable for slurries with particles greater than 500µm.





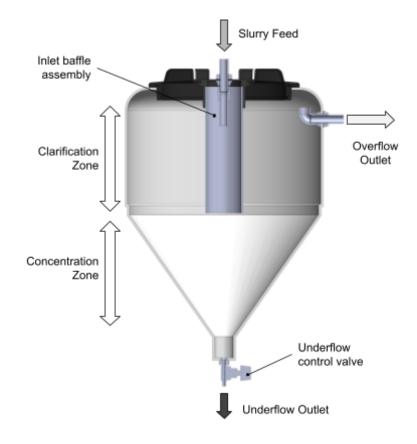
# **Working Principle**

The settling cone is designed to allow solids to settle out of a slurry flow.

Clarified water is displaced to the overflow outlet by slurry entering the cone. Solids settle to the bottom to be extracted via the underflow outlet.

A baffle system within the settling cone prevents mixing of the added slurry with the clarified water.

Overall capacity and separation performance will depend on the properties of the slurry.



#### Control

Decreasing inlet flow will decrease the loss of solids to the overflow outlet.

• The entry flow should always be greater than the underflow flow rate.

Decreasing underflow outlet flow rate will increase the pulp density.

• Blockage can occur if the underflow flow rate is too low.

# Specifications

- Dimensions: 1184mm H x 522mm W x 470mm D
- Maximum underflow outlet flow-rate (water): 2.4 lpm

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