



# Case Study

## Improving product flow



### Improving Our Equipment to Meet Your Needs

Working in collaboration, creating tailored solutions,  
engineering to improve efficiency.

- **The Application:**

- Processing a by-product of converted dry waste and dried food waste/bio waste into biogas for an energy source.

- **The requirement:**

- To handle biochar through the pyrolysis of biomass in an oxygen deficient atmosphere therefore needing a good level of airlock.

- **The solution:**

- Rotolok's range of Double Flap Valves met the brief which also included the ability to set a safety position so in the event of electrical or air failure the valves would automatically close, preventing leakage across the units. Single acting pneumatic actuators with spring return fitted the bill with the added benefit of a more compact design and no requirement for 3-phase power associated with traditional motorised units.

- **The result:**

- In-house machining of the clapper plates and inlets provide an enhanced level of airlock. In-built nitrogen purge points allow for ad-hoc purging should any product catch on the plate. Fabricated fully in stainless steel the valves supplied will ensure the overall process runs smoothly with minimal air loss across the system.

