



VORTEX HDP SLIDE GATE HANDLING CALCIUM OXIDE

- Customer:** Producer of Lime-Based Products
- Material:** Calcium Oxide 400 mesh
(A product used in purification, pH treatment of water and soils, concrete / paint additive, baking, and controlled atmospheric storage of fruits / vegetables.)
- Application:** Discharging product from a holding bin into a rotary feeder for truck load out.
- Challenge:** Replace problematic valves that have not been able to seal this fine material.
- Valve:** Vortex HDP Slide Gate
HDP16-MG SSI
- Results:**



This company has attempted to use slide gates from a number of manufacturers to seal this material. It is so fine that after being initially loaded, the dry bulk tank trailer is driven around the yard to compact and de-aerate the material - allowing more to be added to the load. Persons viewing material being loaded comment that it “looks like liquid milk”. A person closing their eyes and poking a finger into a jar of material is not able to detect their finger making contact.

Butterfly valves and knife gates (previously used) closed material against or into a polymer seat. The seals would quickly abrade to the point that material would flow past the seal. In no time, product appeared everywhere. Material was present in the atmosphere and built up in the loading area. It was both a maintenance and a safety issue.

The unique sealing ability of the Vortex HDP Slide Gate, featuring a self-adjusting blade that rises vertically to seat into a main seal positioned on top of the blade, solved the material sealing issue for this customer.

