



VORTEX IRIS VALVE HANDLING SALT

Customer: Salt Producer

Material: Granular salt

Application: Gravity flow discharge of salt from bulk bags

Challenge: Provide a valve capable of positive material shut-off without degrading the material

Valve: Vortex Iris Valve
Model UBBS12QL



Results:

The customer needed a valve to control the gravity flow discharge of granular salt from bulk bags. The application requires the ability to meter and/or shut off the flow of material without degrading the material or the neck of the bulk bag.

Standard material of construction for Iris Valves is aluminum. However, due to the corrosiveness between salt and aluminum, Vortex sales engineers applied a 12" Iris Valve with 304 stainless steel construction. The Quick Lock model (QL), with preset stop points, will allow the user to meter or shut-off the flow of material.

Many people are not familiar with iris valves. This specialty valve controls the gravity discharge of free-flowing dry bulk materials from bins, bulk bags, chutes, hoppers and IBCs. The closing action of the fabric sleeve (available in different materials to match the product being handled) provides minimal damage to delicate or "friable" products.

Some recent Vortex Iris Valve applications include:

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| additives | alumina powder | bentonite clay powder |
| bulk bag closure* | carbon black | dried vegetables |
| fumed silica | fungicide | granular salt |
| paint powder | pharmaceutical dust | plastic pellets |
| powdered flavors | powdered pigments | powdered resin |
| powdered wax | refractory powder | resin pellets |
| rice flour | salt | starch |
| TiO2 | wiper (for extruded plastic pipe) | |

*Iris Valves are an excellent choice for closing off material being emptied from bulk bags as the valve will not harm the discharge spout of the bag.