



## VORTEX GRAVITY VEE DIVERTER HANDLING GYPSUM

Customer: A Gypsum Plant

Material: Gypsum

Application: Convey 200 mesh gypsum powder from storage tanks into trucks and bulk baggers.

Challenge: Locate a gravity diverter valve that offers more options than the one being used. With the current diverter:

- Material can only be diverted to one destination at a time.
- A separate slide gate, mounted above the diverter, is utilized to shut off material flow through the diverter when it is not being used.

Results:



The Vortex Gravity Vee Diverter solved the customer's problems. The Gravity Vee Diverter is manufactured with two independent actuators allowing additional material handling capabilities.

- Shut off of material at the valve (no extra slide gate needed).
- Conveyed to destination A while destination B is closed.
- Conveyed to destination B while destination A is closed.
- Conveyed to destinations A and B at the same time.
- Volume metered to either or both destinations.

In this application, material conveyed to destination A is supplying either a truck or a pup load out. A second Gravity Vee Diverter (underneath the left discharge) selects either or both. Material conveyed to destination B is supplying either a 50 pound bulk bagger or a 2000 pound bulk bagger. A third Gravity Vee Diverter (underneath the right discharge) selects either or both.

The gypsum powder is used in irrigation water where it is dissolved and applied to clay soil. The soil traps the gypsum. The gypsum, in turn, allows the soil to hold and retain more water.