



## VORTEX AGGREGATE GATE HANDLING FLY ASH

Customer: Company policy dictates name cannot be used

Material: Aggregate / fly ash mix

Application: Mix and unload a fly ash aggregate mix into trucks and bulk bags.

Challenge: Design a gate with 2 opposing air cylinders to stroke 12" to close a 24" opening.

Valve: Vortex Aggregate Gate Model A24-MG-X

### Results:

The customer for this application makes an aggregate mix for structural block (sometimes referred to as cinder blocks). The customer's facility is located on the same site as a coal fired power plant. The company contracts with the utility plant for the fly ash by-product.

Fly ash is mixed with other ingredients to make a dry aggregate mix. At the end of the process, the mix is loaded into trucks and bulk bags and then sold to customers that manufacture structural block products.

The special A24-MG-X Vortex Valves Aggregate Gate was selected for use at the mix load-out point. Opposing air cylinders, each stroking 12" were utilized for the 24" square opening.

The opposing air cylinder design provides the customer two major advantages in discharging product. First, it allows the ability to unload product into the center of the receiving vessel. Secondly, it gives the valve a faster shut off speed—where two blades are required to travel 12" instead of one blade having to travel 24".

