



VORTEX TITAN SLIDE GATE HANDLING COAL

Customer: Regional Coal-Fired Energy Plant

Material: Lignite coal – 3" minus

Application: Customer required a shut-off gate at the bottom of an underground silo beneath a coal pile. The silo feeds a vibratory belt conveyor that conveys coal to a crusher.

Challenge: The gate is required to be abrasion resistant, support its own weight, able to contain dust or moisture, and capable of completely closing through a standing column of material.

Valve: Vortex Titan Slide Gate
TS54.25 x 66

Results:

When this repeat customer needed a process gate for handling coal, they immediately contacted Vortex Valves. A "TITAN of a Titan Slide Gate", weighing 4,800 lbs., was constructed with 400 BNH wetted parts to address abrasion issues. The 12" frame supports 2,500 lbs. of hanging weight. Internal return pans are designed to contain system moisture and dust. A custom access panel allows for seal maintenance without removing the gate from service. The hydraulic actuator provides 70,000 lbs. of force when the 1.25" thick, specially supported blade is required to close through material. For heavy-duty material handling, consider the Vortex Titan Series.



ENGINEERED SOLUTIONS



TSG - Modified

Size: 54" x 66" (1350mm x 1650mm)

Material Handled: Coal

Location: Pennsylvania

Problem: Customer needed a slide gate that was able to cut through a column of coal

Features:

- 1 1/4" AR steel blade
- Hydraulic actuation with 70,000 lbs. of force.
- Custom Access panel for in-line seal maintenance

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