



## VORTEX WYE LINE DIVERTER HANDLING TALC

Customer: National Producer of Talc

Material: Milled Talc

Application: Conveying milled talc to storage bins

Challenge: Employ slide gates and diverter valves that will adequately seal this fine material in a conveying line pressure

Valve: Vortex Quantum Wye Line Diverter DR5-2CS-SL-MG

Results:



This national company has been a Vortex partner since 1988. Their product, talc, is the world's softest industrial mineral and possesses very unique material properties. It is used as a coating agent for feed, fertilizer, and pharmaceuticals. It is an additive for ceramics, cosmetics, and paint. It is a reinforcing filler used in plastics. It is used by the paper industry to control pitch and stickiness. Numerous industries rely on talc additives to make their product better or easier to handle.

In this facility talc is milled to approximately 5 microns (compared to a human hair that is approximately 75 microns thick) prior to being conveyed to storage bins. From the bins, talc is delivered to customers via railcars, bulk trucks, or super sacks.

In handling talc, it is imperative that valves and other equipment is capable of sealing the product and the conveying line pressure. Over the years and through many plant expansions, the company has relied on Vortex valves to handle this task.

Due to the quantity of Vortex valves within the facility, "campaign" valves are utilized when valves need to be adjusted for seal maintenance. Each valve is equipped with quick disconnect cables, allowing the valve needing maintenance to quickly be taken out of service and the campaign valve installed in its place. Maintenance is performed on the original valve and that valve becomes the new campaign valve.

"Maintenance is not often required; however, when the need occurs, Vortex valves are extremely easy to work on. By using campaign valves we reduce our downtime and gain production efficiency," states the maintenance supervisor. "I've worked with Vortex since I started here. We have three different versions of the Wye Line and Orifice Gate valves. Vortex continually improves its products and has always offered us excellent support and service – even with their older valve models."