



## VORTEX 2-WAY WYE LINE DIVERTER HANDLING POLYMER PELLETS

Customer: A Polymer Compounder

Material: Polymer Pellets

Application: Pneumatically convey polymer pellets from a screener into either of two quality assurance tanks.

Challenge: Provide a diverter valve able to withstand the abrasiveness of fiberglass filled pellets.

Valve: Vortex 2-way Wye Line Diverter  
Model D5-2CSY-SL-MG-X

Results:

This US-based division of an international company manufactures an extremely abrasive polymer pellet. Plant management learned from a sister UK facility that component parts used to transfer product must be able to withstand the product's abrasiveness.

The company compounds virgin polymer, powders, color, UV inhibitors and chopped fiberglass to create a polymer pellet that contains up to 50% fiberglass. Compounded pellets are sold to molders that manufacture plastic parts for the automotive industry.

A Vortex Wye Line Diverter solved the problem. The detailed model number is D5-2CSY-SL-MG-X, installed in October 2003. Two significant modifications were made to the Vortex diverter: 1) The inlet wye was ceramic backed to offer additional abrasion resistance. 2) The customer requested the "straight through" leg of the diverter be opposite the air cylinder instead of adjacent to it.

The ceramic backed Vortex diverter handles 5,000 pounds of product per hour, 24 hours a day, six days a week. Its success has led to additional sales of Vortex slide gates and diverter valves within the facility.

