



VORTEX WYE LINE DIVERTER HANDLING POLYETHYLENE PELLETS

Customer: A chemical company

Material: Plastic resin for Polyethylene pellets

Application: Divert pneumatically conveyed pellets to various process stations within the facility.

Challenge: Locate diverter valves to replace three tunnel style diverters currently being used. New diverters should be:

- 1) Less expensive
- 2) Able to shift on the fly
- 3) Easy to maintain

Valve: Vortex 2-way Wye Line Diverter
Model D12-2ALY-SL-MG-P40-SM1-OF30

Results:

A Vortex 2-way Wye Line Diverter met all three criteria standards. The detailed model number is D12-2ALY-SL-MG-P40-SM1-OF30.

Base cost of each Vortex Diverter is \$850 less than the tunnel diverter.

The sliding blade design of the Vortex Diverter allows shifting on the fly, keeping the product line running. The design of the tunnel diverter requires stopping material, shutting down the blower, shifting the diverter, starting up the blower, and re-introducing material.

To service the tunnel diverter, it is removed, trucked to a local shop (or shipped to the manufacturer), repaired, and then returned. The process can take weeks to accomplish. A simple repair (clean valve / replace seals) typically costs \$1,000 – 1,200. Major repairs are more expensive and routinely require an additional \$250 – 300 evaluation fee. Freight costs are incurred both ways. To eliminate serious downtime, many companies utilize a campaign valve.

The Vortex Wye Line Diverter can be maintained while installed in the conveying line at a significantly reduced cost with considerably less downtime.

