



VORTEX CROSS-OVER DIVERTER HANDLING FLOUR PRE-MIX

- Customer: A National Donut Chain
- Material: Flour Pre-Mix
- Application: Pneumatically convey graded flour from two sources to any of eight destinations (packing stations).
- Challenge: Automate the switching of material to different packing stations in this facility.
- Valve: Vortex D6-2ALY-SL-MG-P10-SB-E Cross-Over Diverter and two (2) D6-4ALY-MG-P10-SB 4-way Diverters
- Results:

Diverters from Vortex Valves made the automation possible. Various flour mixes arrive via bulk container truck and are unloaded into source lines A or B. Material may then be conveyed from:

- Source A to either C or D
- Source B to either C or D
- A to C and B to D at the same time
- A to D and B to C at the same time



Convey lines C and D each convey material into a Vortex 4-way wye Diverter. Material passing through C may be directed to any one of four packing stations (1, 2, 3, or 4) and material passing through D may be directed to any one of four packing stations (5, 6, 7, or 8).

Vortex's cross-over valve design offered positive solutions to issues that management had encountered while using hose stations in a previous factory.

The diverters were installed when the facility was built (in the fall of 2001). During a trip to the facility to discuss an upcoming product line expansion (June 2013), the above photograph was taken. The head of maintenance was there to comment, "We haven't done any maintenance to these valves at all. Of course, we want Vortex valves for our new expansion!"

Vortex valves are available in a variety of models to solve customer material handling problems.