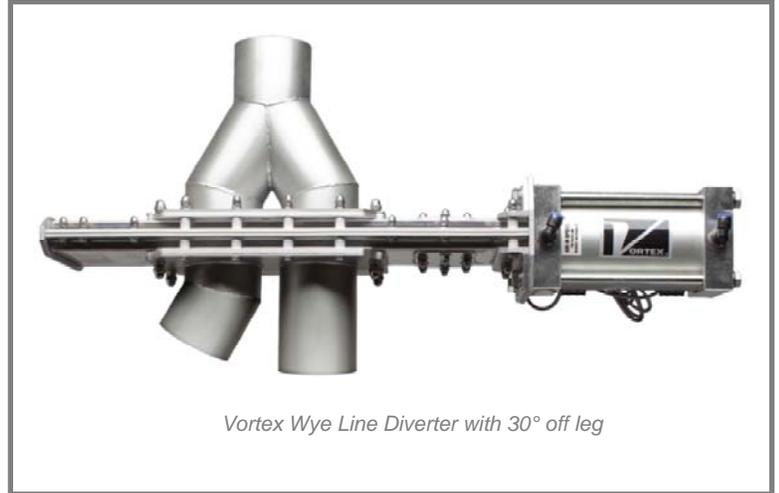




## VORTEX WYE LINE DIVERTER HANDLING SEMOLINA FLOUR

- Customer: Pasta Manufacturer
- Material: Semolina Flour
- Application: Pneumatically conveying flour within the facility
- Challenge: Verify the “cleanliness” of the diverter valves that are currently being utilized
- Valve: Vortex 2-way Wye Line Diverters
- DR3-2S4-MG-OF30N-PX
  - DR4-2S4-MG-OF30N-PX
  - DR6-2S4-MG-OF30N-PX



### Results:

When the quality control department of this pasta plant began to notice small pieces of metal appearing in their semolina flour, a search immediately began to find the cause.

As different component parts within the conveying system were removed, taken apart, and inspected, maintenance eventually found metal shavings within the cast housing of five diverter valves. These valves utilize a metal-to-metal interior housing seal. Over time, the plug and the housing had worn against each other to create the system contamination.

Once valve components were identified as the contamination culprit, maintenance then focused their inspection on a 4” and a 5” Vortex Wye Line Diverter Valve used to handle incoming semolina flour. The Vortex valves had been installed fourteen years earlier and no maintenance had ever been performed on them. The Vortex diverters utilize interior, “live loaded” polymer seals that seal both material and conveying line air. There is never metal to metal contact within the valve. Upon inspection, the valves were declared “clean.”

The company was impressed with the cleanliness and longevity of the Vortex valves and immediately ordered Vortex Wye Line Diverter Valve replacements for the 3”, 4”, and 6” valves that had created the contamination issues. A special 30° offset was added to the discharge weldment - allowing the diverters to more closely adapt to the installation.

The diverters were installed in April of 2012. The company has not experienced any other problems since then.