



## VORTEX FLOW METER REDUCES MAINTENANCE COSTS AND INCREASES THROUGHPUT IN POLYESTER FIBER PRODUCTION FACILITY

### Customer

Conoco®

### Application

TiO<sub>2</sub> utilizing the chloride process

### Challenge

Conoco's use of Vortex flow meter technology has increased greatly over the past two years. This has been due to a general transition toward applying "Best Practices" concepts to all of their flow applications.

On a recent project, Conoco decided to install vortex meters where they had traditionally been using orifice plates. They had been experiencing maintenance issues with a plugging/freezing impulse lines.

### Solution

While the original justification for this project was to reduce their maintenance costs by eliminating the plugged impulse line problem, additional savings was realized by Emerson's unique offering of the Reducer Vortex Meter.

While sizing the meters for this application, it was noted that Emerson needed to reduce each of the lines to get a "good" measurement from the vortex meters. Normally this would require welding reducers to the line and putting in a section of reduced-bore piping. However, Emerson was able to offer an additional \$6300+ in savings by eliminating the additional installation costs normally associated with putting in a smaller than line size meter.

### Results

- 8800 measures lower flow rates than the same size standard Vortex
- Reduced installation costs by an average of \$800 per flow point compared with field installation of Reducers
- Minimizes risk by matching face-to-face dimension of standard 8800 Vortex



Rosemount™ Reducer Vortex Flow Meter

# VORTEX FLOW METER REDUCES MAINTENANCE COSTS AND INCREASES THROUGHPUT IN POLYESTER FIBER PRODUCTION FACILITY

In summary, Conoco reduced operations and maintenance costs by reducing down-time and maintenance calls for plugged impulse lines. They have already realized up front savings during the installation of these meters.

Conoco will realize reduced operations and maintenance costs by reducing down-time and maintenance calls for plugged impulse lines.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Brand logotype are registered trademarks of one of the Emerson family of companies. All other marks are the property of their respective owners.  
© 2024 Emerson Electric Co.  
All rights reserved.

For more information, visit  
[Emerson.com/oilandgas](https://emerson.com/oilandgas)  
[Emerson.com/vortex](https://emerson.com/vortex)

00830-0600-4003 Rev AC