

Reducer Vortex Minimizes Cost and Project Risk

Product

Rosemount 8800CR Vortex Flowmeter

Customer:

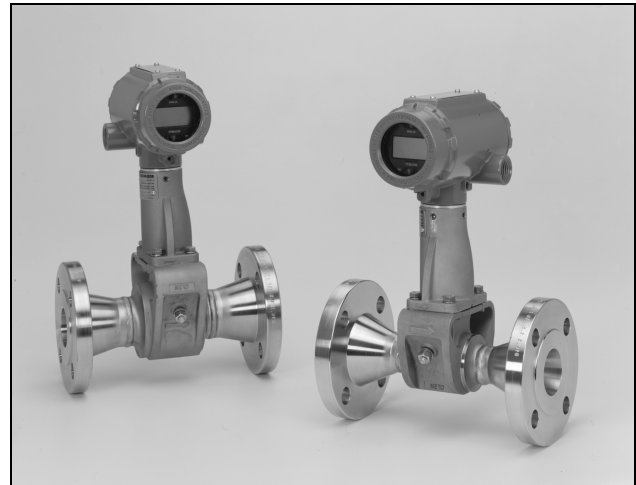
Conoco

Application:

TiO₂ utilizing the chloride process

Details:

- Conoco Saved over \$6300 in installation costs
- 8 Reducer Vortex meters were installed



Conoco's use of Vortex flowmeter 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.

Problem

On a recent project, Conoco decided to apply vortex meters where they had traditionally been using orifice plates. They had been experiencing maintenance issues with plugging/freezing impulse lines. 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 Process Management's unique offering of our Reducer Vortex Meter.

While sizing the meters for this application, it was noted that Emerson Process Management needed to downsize 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 Process Management 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.

In summary, Conoco will realize 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.

Result

- The 8800CR measures lower flows than the same size standard Vortex.
- The 8800CR 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 8800C Vortex.

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Emerson Process Management.

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