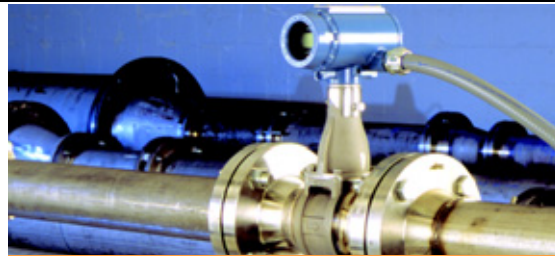


Reducer™ Vortex Saves \$1121 on Steam Flow Measurement Installation

RESULTS

- Installation savings of \$1121
- Reduced maintenance costs
- Improved measurement reliability



APPLICATION

Steam flow measurement in a 4-inch line

CUSTOMER

A chemical facility in North America

CHALLENGE

This particular chemical plant had a traditional DP orifice system installed and was experiencing issues with impulse lines freezing due to insufficient heat tracing. This resulted in inaccuracy and loss of measurement. The customer had adopted vortex technology as “Best Practice” to address impulse line issues. In this 4-inch steam flow application, vortex sizing showed that a 3-inch meter would be ideal for the measurement range. This would require a costly field reduction in the piping.

SOLUTION

To reduce the cost of the installation, the Rosemount 8800 Reducer™ Vortex was suggested. This meter allowed the customer to install a 3-inch vortex meter that had 4-inch flanges attached allowing them to save \$1121 on the installation when compared to installing a standard 3-inch vortex meter.

Reducer™ Vortex technology resulted in more than \$1100 in installation savings for this measurement.



The 8800 Reducer™ Vortex Flowmeter

ROSEMOUNT®

For more information:
www.rosemount.com


EMERSON™
Process Management

By eliminating the impulse lines, this chemical facility was able to reduce maintenance costs and increase measurement reliability.

Material Savings = \$551

- \$46: For traditional site practice, one reducer and one expander are required at \$23 each.
- \$700: For traditional site practice, two 3-inch and two additional 4-inch flanges would also be required.
- \$200: For traditional site practice, ten feet of 3-inch pipe is required at \$20 per foot.
- -\$385: Paid \$385 more for Reducer™ Vortex versus a traditional 3-inch flanged meter.

Engineering Savings = \$100

- \$100: Reduced engineering time by two hours at \$50 per hour.

Procurement Savings = \$110

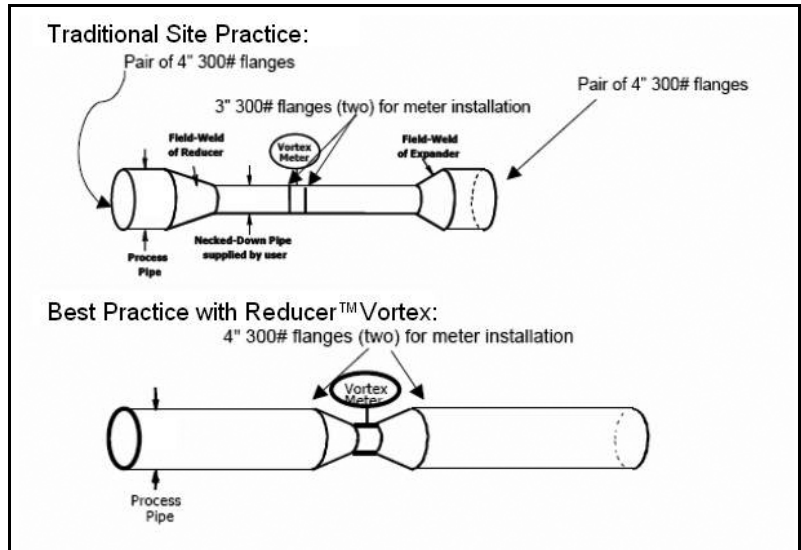
- \$110: Three less items to purchase and inspect than the traditional site practice.

Installation Labor Savings = \$360

- \$360: Reduced demolition, fabrication, and installation time by eight hours at \$45 per hour.

Total Savings = \$1121

In addition to eliminating the troublesome impulse lines, this chemical plant was able to reduce maintenance costs while improving measurement reliability with Rosemount 8800 Reducer™ Vortex technology.



Changing installation practices

RESOURCES

- <http://www.emersonprocess.com/rosemount/document/datasheets.html>
- <http://www.emersonprocess.com/rosemount/products/flow/m8800cr.html>

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