

Reducer™ Vortex Minimizes Cost and Project Risk While Measuring Lower Flow Rates

RESULTS

- Eliminated downtime caused by frozen or plugged impulse lines
- Reduced installation costs by \$800 per flow point, or \$6,300 overall
- Reduced maintenance costs
- Improved measurement reliability



The refinery realized \$6,300 in installation savings for this project alone.

APPLICATION

Various installations where impulse line plugging is a concern

CUSTOMER

A large North American Refinery

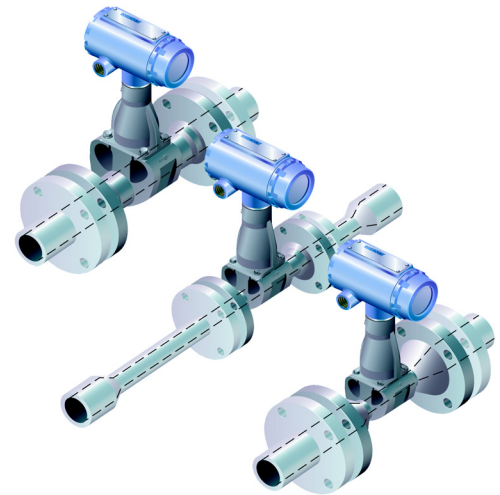
CHALLENGE

This refinery had been experiencing maintenance issues with plugging and freezing of impulse lines in their plant. Plugging and freezing of impulse lines leads to loss of flow measurements, inaccurate measurements, and loss of process performance and process control.

SOLUTION

The company decided to apply vortex flowmeters where they had traditionally installed traditional DP orifice plates. While the original justification for this project was to eliminate the plugged/frozen impulse line problem, additional savings were realized by the Rosemount Reducer Vortex Flowmeter offering.

During the sizing of the meters for this application, it was noted that the line size needed to be reduced to get an accurate measurement from the vortex meters. Normally this would require welding reducers to the line and putting in a section of reduced-bore piping. With the installation of the Rosemount 8800 Reducer Vortex Flowmeter, the plugged/frozen lines in this plant were eliminated. By incorporating the line size reduction into the flange of the Rosemount 8800 Reducer Vortex Flowmeter, an additional \$6300+ in savings were realized by eliminating the additional installation costs normally associated with putting in a smaller line size meter.



Historic installation, common practice installation, and "Best Practice" installation with the Rosemount 8800 Reducer Vortex.

ROSEMOUNT®

For more information:
www.rosemount.com


EMERSON™
 Process Management

In addition, this refinery was able to reduce operations and maintenance costs by reducing downtime and maintenance calls. The all-welded, non-clog design of the Rosemount 8800 Vortex Flowmeters were directly responsible for this benefit. Lastly, this refinery was also able to better optimize their process because of the increased reliability of the flow measurement provided by the Rosemount 8800 Reducer Vortex Flowmeter.

RESOURCES

Emerson Process Management Petroleum Refining Industry

<http://www2.emersonprocess.com/en-US/industries/refining/Pages/index.aspx>

Rosemount 8800 Reducer Vortex Flowmeter

<http://www2.emersonprocess.com/en-US/brands/rosemount/Flow/Vortex-Flowmeters/8800-Reducer/Pages/index.aspx>

The all-welded, non-clog design reduced maintenance costs and improved measurement reliability, resulting in better process optimization and availability.

The contents of this publication are presented for information purposes only, and while effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, expressed or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which can be found at www.rosemount.com/terms_of_sale. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.

The Emerson logo is a trade mark and service mark of Emerson Electric Co. Rosemount and the Rosemount logotype are registered trademarks of Rosemount Inc. PlantWeb is a registered trademark of one of the Emerson Process Management group of companies. All other marks are the property of their respective owners.

Emerson Process Management

Rosemount Inc.

8200 Market Boulevard
Chanhassen, MN 55317 USA
www.rosemount.com
Tel (USA) +1 800 522 6277
Tel (International) +1 (303) 527 5200
Fax +1 (303) 530 8459

Emerson Process Management

Blegistrasse 23
P.O. Box 1046
CH 6341 Baar
Switzerland
Tel +41 (0) 41 768 6111
Fax +41 (0) 41 768 6300

Emerson FZE

P.O. Box 17033
Jebel Ali Free Zone
Dubai UAE
Tel +971 4 811 8100
Fax +971 4 886 5465

Emerson Process Management Asia Pacific Private Limited

1 Pandan Crescent
Singapore 128461
T (65) 6777 8211
F (65) 6777 0947
Enquiries@AP.EmersonProcess.com

Emerson Process Management Latin America

Multipark Office Center

Multipark Office Center
Turrubares Building, 3rd & 4th floor
Guachipelin de Escazu, Costa Rica
T+(506) 2505-6962
international.mmicam@emersonprocess.com

ROSEMOUNT[®]

For more information:
www.rosemount.com



EMERSON[™]
Process Management