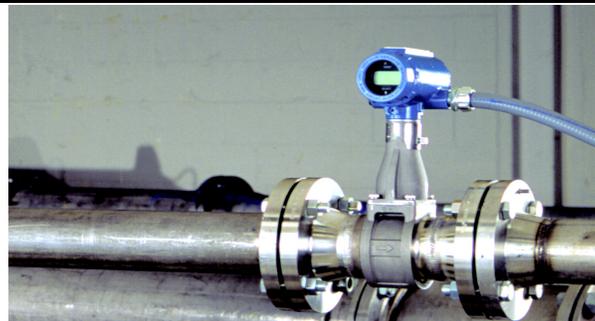


Rosemount 8800 Vortex Flowmeters Outperform the Competition in PVC Processing

RESULTS

- Savings of over \$3,000 in maintenance costs over a three-year period
- Flowmeters in service for three years without failure or cleaning



The recovery unit performed phenomenally. The meters have been in service for three years without failure or cleaning.

APPLICATION

Polyvinyl Chloride Processing

CUSTOMER

PVC production

CHALLENGE

Polyvinyl chloride (PVC) is a polymer formed in a reaction that links vinyl chloride monomer (VCM) into long chains. VCM that does not react is stripped from the reactor effluent and recycled.

The production of PVC is closely regulated by the EPA. The agency is especially concerned about the process to recover and recycle the VCM, because VCM is carcinogenic.

Vortex meters are used to measure the flow in the VCM waste recovery line, which is also the flare feed line.

The customer found that with competitors' vortex flowmeters, collateral polymer dust caused plugging problems during the VCM recovery process.

At one installation, competitor meters functioned for only a short period before breaking down when PVC dust collected in the sensor ports. Alternate mounting did not improve performance of the competitor meters.

The same installation then tried another competitor vortex meter to measure VCM waste. The crevices of the competitor meter sensor ports became clogged in the same manner as the first competitor meter sensor ports had.

Both competitor meters for this installation had to be removed and cleaned every seven to 10 days. This down time reduced PVC production and increased maintenance costs.

ROSEMOUNT

For more information:
www.rosemount.com

SOLUTION

After being disappointed by the performance of both competitor meters, the PVC processor installed Rosemount 8800 Vortex Flowmeters. The recovery unit performed phenomenally. The meters have been in service for three years without failure or cleaning.

At \$90 per cleaning × 12 cleanings per year, the customer saved over \$3,000 over a three-year period in maintenance costs.

RESOURCES

Emerson Process Management Industries

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

Rosemount Vortex Flowmeters

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



Installed Rosemount 8800 Vortex Flowmeters.

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Emerson Process Management Rosemount Inc.

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

Emerson Process Management Flow B.V.

Neonstraat 1
6718 WX Ede
The Netherlands
T +31 (0) 318 495555
F +31 (0) 318 495556

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



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