

Juice Manufacturer Improves Measurement and Reliability of CIP Feed with Magmeter Technology

RESULTS

- Improved process uptime
- Improved process control
- Reduced inventory costs



APPLICATION

CIP cleaning fluid feed to blending plant

APPLICATION CHARACTERISTICS

Pressure up to 4 bar, Temperature 40 to 90 °C, Cleaning agent concentration 1 to 2 1/2%

CUSTOMER

Juice manufacturer in Europe

CHALLENGE

To prevent harmful bacteria contamination, this plant placed stringent requirements and controls on the cleanliness of the process during the manufacturing of fruit juices. To ensure that process piping and tanks are adequately cleaned after each production run, cleaning agents are routinely pumped to various parts of the plant. In order to have the desired result, the cleaning fluid flow rate has to be monitored and controlled closely to ensure adequate quantities of cleaning agent are pumped to the syrup room, heat exchangers, blending and bottling areas, and fillers. Without adequate flow measurement, cleanliness of this process cannot be assured and contamination may result.

Furthermore, cleaning agents are often mildly acidic or caustic and can accelerate corrosion and degradation of sensitive flow instrumentation. As such, careful selection of a flow meter is necessary to ensure durability under these difficult circumstances.

The Rosemount 8721 Hygienic Magmeter provided an accurate and reliable measurement improving process control.



Rosemount 8721 Hygienic Magmeter Installation

ROSEMOUNT[®]

For more information:
www.rosemount.com


EMERSON[™]
Process Management

SOLUTION

This manufacturer selected the Rosemount 8721 Hygienic Magmeter for this difficult application. The customer was already using the 8721 for flow measurement in other parts of the manufacturing process with great success. The wide variety of electrode options allowed the user to select a material that would withstand the corrosive properties of the Clean-In-Place (CIP) fluid, extending the life of the flowmeter.

In addition, because this manufacturer was already using the Rosemount 8721 Hygienic Magmeter, they were able to minimize the impact on their inventory costs.

The durability of the 8721 Hygienic Magmeter reduced process downtime caused by corrosion due to the CIP fluid.

RESOURCES

Emerson Process Management Food & Beverage Industry

<http://www2.emersonprocess.com/en-US/plantweb/customerproven/Pages/FoodBeverage.aspx>

Rosemount 8721 Hygienic Sensor

<http://www2.emersonprocess.com/en-US/brands/rosemount/Flow/Magnetic-Flowmeters/8721-Hygienic-Sensor/Pages/index.aspx>

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 Blvd
Chanhausen, MN 55317
www.rosemount.com
Tel (USA) 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