

Juice Manufacturer Increases Pasteurization Uptime

RESULTS

- Increased process availability
- Reduced downtime associated with timing meter failure
- Reduced maintenance costs



APPLICATION

HTST juice pasteurisation timing system

CUSTOMER

A juice manufacturer in Europe

CHALLENGE

This manufacturer experienced reduced throughput due to inaccurate flow measurements on the pasteurisation loop.

Successful pasteurisation requires precise control of flow and velocity of the juice through the pasteuriser.

The flow rate determines the residence time of the juice within the pasteuriser. Incorrect residence timing results in inadequate pasteurisation, which impacts product safety, resulting in the need for an additional pass through the pasteuriser to assure product quality meets The Food and Drug Administration's (FDA) health standards.

SOLUTION

Rosemount 8721 Hygienic Magmeter was implemented as the timing meter for the pasteurisation loop. The 8721 has been tested by the FDA (PMO M-b 350) and provides repeatable, reliable, low maintenance flow metering at accuracies to 0.25%. These capabilities allowed this manufacturer to better control their pasteurisation loop, reducing the requirement for additional passes - thus increasing their throughput. The 8721 was installed in the pipe using weld end adapters, reducing process connections and potential leak points. The 8721 also has a specially designed liner, which can withstand high temperatures and vacuums often experienced in such processes. These features extend meter life and reliability, resulting in fewer failures of the timing flowmeter. This reduces maintenance costs by extending the intervals between meter replacement.

The Rosemount 8721 Hygienic Magmeter provides reliable and accurate measurements, extending meter life, and enabling tighter control of pasteurisation loops.



The Rosemount 8721 Hygienic Magmeter Installed

ROSEMOUNT

For more information:
www.rosemount.com


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RESOURCES

<http://www.emersonprocess.com/rosemount/document/datasheets.html>

<http://www.emersonprocess.com/rosemount/products/flow/m8721.html>

http://emersonprocess.com/rosemount/industry/food_beverage/index.html

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