

Juice Manufacturer Increases Pasteurization Uptime

RESULTS

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

APPLICATION

HTST juice pasteurization timing system

CUSTOMER

A juice manufacturer in Europe

CHALLENGE

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

Successful pasteurization requires precise control of flow and velocity of the juice through the pasteurizer.

The flow rate determines the residence time of the juice within the pasteurizer. Incorrect residence timing results in inadequate pasteurization, which impacts product safety, resulting in the need for an additional pass through the pasteurizer 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 pasteurization 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 pasteurization loop, reducing the requirement for additional passes - thus increasing their throughput.



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



The Rosemount 8721 Hygienic Magmeter Installed.

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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.

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>

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