AW-LAKE
PROCESS FLOW MEASUREMENT

APPLICATION SPOTLIGHT

Coriolis Mass Meters Provide Accurate Blending During Winemaking Process

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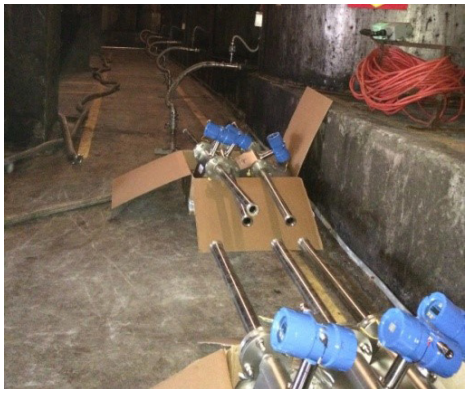

APPLICATION:

As part of its winemaking process, a world renown winery transports alcohol concentrate stored in tanks to a liquid blending area via a piping system. The winery must accurately measure the amount of alcohol concentrate added during the blending process to create wines with distinct flavors and alcohol content consistent from batch to batch.

PRODUCT SUPPLIED:

- TRICOR TCM 028K Coriolis Mass Flow Meters

CHALLENGES:

Previously, electromagnetic flow meters measured the alcohol concentrations and alcohol-blended liquids. However, these meters failed when measuring stronger alcohols due to low conductivity. To solve this issue, the customer needed a flow meter capable of measuring water, blended wine, and alcohol magma with high precision and accuracy.

CUSTOMER MATERIAL CHARACTERISTICS:

Product: Alcohol concentrate

Flow: 550 lbs/min

Pressure: 75 psi

Temperature: 50-90°F

Viscosity: 1 cst

Density: close to 0.8 kg/L

SOLUTION:

TRICOR TCM 028K Coriolis mass flow meters met customer needs, offering the following technical advantages:

1. Mass flow meter precision (±0.1%) is greater than electromagnetic flow meters (±0.5%), supporting a higher accuracy metering performance.
2. Medium characteristics did not impact the flow meter system. By incorporating the principle of Coriolis technology, the meters accurately measure water, blended wine, and wine concentrate in a wide range of temperatures.
3. The Coriolis mass flow meters not only provide flow rates and batch totals in multiple mass and volume units, they also provide direct measurement of media density and temperature, reducing additional instrumentation and customer costs.
4. TRICOR meters can be customized using multiple flange sizes to fit the very best meter in applications according to field pipe sizes.