# LN solves temperature instability issue on ketchup deaerator

#### The Application

Pressurized Filler Bowl for Ketchup Replacing Mechanical Float with Pneumatic Output

## The Requirements

The plant was having difficulty with the side mounted float level transmitters controlling ketchup levels in their fillers. The level was critical to provide consistent filling but occasionally the float would stick when ketchup adhered to the linkage resulting in erroneous output. Additionally, concerns over the cleanability and durability of the mechanical system prompted the customer to investigate better solutions. Because the mechanical float level in this system sent a pneumatic control signal, the desire was to replace with one complete solution that would mate to the existing controls.

## The Anderson-Negele Solution

We supplied a LN Potentiometric level sensor mated with an ED190 to the plant for their evaluation. For this application the ED190 was equipped with 801 controller, I/P transducer, and an independent 24v power supply. The original mechanical float was side mounted, however an existing 2"TC pressure gauge port allowed for a convenient top mount installation. The ED190 was mounted to the control panel then power and the pneumatic lines were run to the box. The resulting "pneumatic" level control system provided the plant a state of the art electronic level transmitter that was immune to the affects of temperature and product coatings, eliminated the periodic maintenance required for moving parts and significantly improved CIP cleanability. Additionally the standard 801 relay output was utilized as a local high level alarm for the operator. The accuracy and stability of the LN along with the increased functionality, simplicity and "retrofitability" of the complete package has lead to the ongoing retrofit throughout the plant.

## LN Potentiometric Level Sensor



#### **Typical Applications**

- Deaerator
- Rotary jug fillers
- Stationary fillers
- Pressurized fillers
- Scrape surface
- processors CIP skids
- Pressurized process vessels
- **Balance tanks**



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