Application report FTS-141 **FOOD**

Improvised high temperature CIP return lines with Calorimetric Flow Switch FTS-141

BAMUL Dairy - The Bangalore Urban, Rural & Ramanagara District Co-Operative Milk Producers societies Union Ltd. **(BAMUL)** was established during 1975 under operation flood II by keeping **AMUL** as its role model. The BAMUL is a unit of Karnataka co-operative Milk Producers Federation (KMF) which is the Apex Body in Karnataka representing Dairy Farmers Co-operatives. It is the second largest Dairy Co-Operative amongst the Dairy Co-Operatives in the country. In south India it stands first in terms of procurement as well as sales. The Brand **NANDINI** is the house hold name for Pure and Fresh Milk and Milk Products. The Bangalore Dairy is one of the most beautiful Dairies in India by adopting **Computer Controlled State of the Art Technology.**

The Requirements

Bamul Bangalore Plant was facing issue in their CIP return lines where the installed flowswitches were continuously failing due to high temperature CIP chemicals above 80 °C. They were looking for better alternative flow switch which can sustain such high temperature and provide better results in terms of quality and avoid failures.

The Anderson-Negele Solution

Our Calorimetric Flow Switch FTS-141 was offered which can with stand higher temperature up to 100 °C and the measurement is also compensated up to 100 °C. After installing one FTS-141 they found that it can sustain high temperature with accurate display of flow rate % measurement range. They also appreciated the durability and accuracy factor which Anderson-Negele Calorimetric Flow Switch FTS-141 provides.
With such outcomes Bamul Bengaluru plant Maintenance team decided to standardize there CIP return lines process with Anderson-Negele Flow Switch FTS-141. Infact they have recommended their other plants also to use our FTS-141 Flow switch.

Why the customer decided for Anderson-Negele

- Process temperature up to 100 °C (Compensated)
- Senors operates with self protection at higher temperatures
- Highly durable and comes with SS body
- No downtime during CIP process
- Easy return of investment

Features

- Calorimetric measurement principle with pulsed heating
- Flow-optimized geometry of sensor tip
- Insensitive to temperature shocks, short response time
- Integrated sensor protection through automated switch-off at over temperature T > 100 °C (212 °F)
- Adjustable switch output in % of flow rate

Customer

BAMUL Dairy, Bengaluru

FTS-141, Flow Switch

CIP return lines with FTS-141 Flow Switch

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