

**APPLICATION SOLUTION: Volumetric Filling**



**Product Family:** Electric

**Product Used:** ERD10 w/ SS2 option, ACS

**Product Type:** Standard

**Application Description:**

Volumetric filling for dairy products.

**Challenge:**

An OEM (Original Equipment Manufacturer) of volumetric filling equipment for dairy products needed a hygienic electric actuator solution for a revised equipment design intended for USDA & 3A certification. The electric actuators would replace the pneumatic cylinders on the existing design and create a cost effective, hygienic solution. Additionally, the electric actuators had to seamlessly integrate with the existing Allen Bradley PLC (Programmable Logic Controller).

**Tolomatic Solution:**

An all stainless steel ERD10 electric cylinder with protective motor enclosure and ACS (Actuator Control Solution) drive was chosen to provide the customer accurate, repeatable filling. The smooth, round bodied stainless steel construction of the ERD10 is a very hygienic design. The SS2 option for the ERD10 protects the motor in a stainless enclosure. The ERD10 assembled with SS2 option provides IP67 protection from frequent wash down cleanings. The ACS with Ethernet/IP easily connected to the Allen Bradley PLC via daisy chain to multiple drives. Finally, the ERD and ACS were a cost effective solution which allowed the customer to transition from pneumatic to electric.

**Customer Benefit:**

- Hygienic design allowed for 3A & USDA certification.
- Able to stay within budget with electric solution
- Connectivity to existing PLC via daisy chained Ethernet/IP eliminated addition wiring costs