

APPLICATION SOLUTION: Volumetric Filling



Product Family: Electric
Product Used: ERD10 w/ SS2 option
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 ERD10 actuator w/ SS2 option and a JVL drive were chosen to easily connect to the PLC and provide the customer with accurate, repeatable filling. The smooth, round bodied stainless steel construction of the ERD10 is a very hygienic design. The all stainless steel ERD10SS2 electric cylinder houses the motor within an enclosure which protects the motor from moisture during the frequent wash-down cleaning of the equipment. The JVL drive easily connected to the Allen Bradley PLC via daisy chain to multiple drives. Finally, the ERD and JVL drive 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