Filling Equipment
Filling, capping, and overcapping is a combination for the Monobloc Fill/Finish Packaging System. This continuous-motion Monobloc includes the following features:

- Filling each container utilizing positive displacement piston pump technology (peristaltic also available)
- Applying a screw thread cap to each container
- When applicable, applying an overcap to each container

Challenge
The challenge for this application was to fill and cap containers at high speeds in an intrinsically-safe (Class 1, Division 1) environment while allowing for quick changeover.

Solution
This intrinsically safe system includes a dockable trolley-mounted filler that operates in a continuous motion mode in order to achieve the required fill rate. A walking beam nozzle bracket fills the containers from the bottom up, eliminating foaming. The remote main control enclosure is positioned outside of the hazardous environment, with an option of having it within the environment exists as well.

Furthermore, the servomotor drives and dockable trolley help in minimizing the changeover time between products and/or fill volumes. Other features such as quick change container tooling and capping chucks assist in further reducing changeover time.