

Seals Increase Performance in Glue Dispensing Equipment

Challenge

Background

Reciprocating pumps are capable of generating tremendous pressure, while delivering a fixed volume, and handling high viscosity fluid. A customer regularly serviced pumps used to dispense glue. This medium would harden inside the pump, stick to components, and ultimately cause seal damage. Further, seal life was exacerbated due to lack of compatibility with cleaning chemicals.

Solution

Product

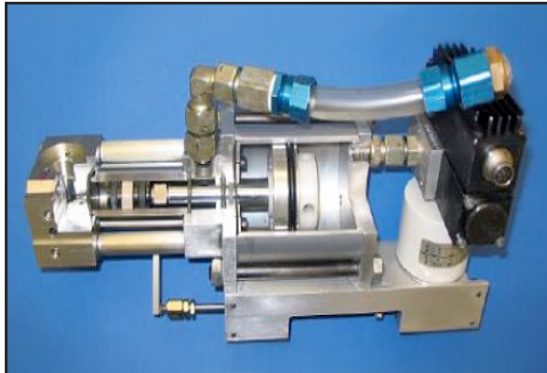
Chesterton specialists worked closely with the customer to intimately understand the application and propose a solution. **Chesterton® 18K Split Wear Rings** made from **AWC 660** were suggested to minimize radial movement of the piston. A **Chesterton Series 100 Cantilever Spring Energized Seal** was also proposed. It was designed with a scraper lip profile and made from wear-resistant **AWC 630** to seal the medium.

Results

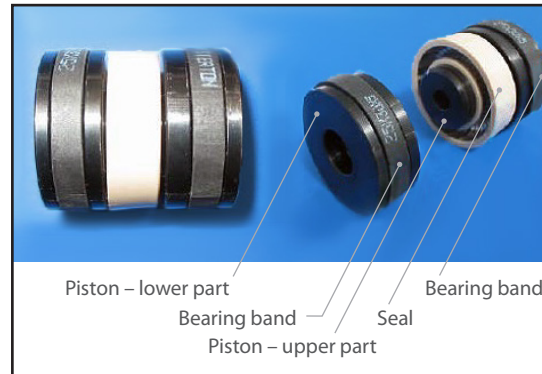
Pump Performance Improved

Field validation took place through a functional trial in the customer's equipment. Performance drastically improved, Clean-In-Place (CIP) chemicals could be employed, and Mean-Time Between Maintenance (MTBM) intervals was substantially increased.

Chesterton's hands-on service and technically reliable solution were appreciated, resulting in the business being awarded for the glue dispensing equipment.



Glue pump cutaway



Chesterton Series 100 Cantilever Spring Energized Seals.



Field validation.