



Summary

Industry:	Pharmaceutical
Application:	Centrifuge
Actual Saving:	Batch losses eliminated
Payback Period:	Immediate



Sealing Solution Designed and Manufactured by ERIKS

ISSUE

The production process of a large pharmaceutical manufacturer involved the use of a large centrifuge which opened and closed numerous times during its operation. The seal fitted to the unit ensured containment, however, in its closed state it had failed contaminating production resulting in loss of production batches.

SOLUTION

Following an initial examination, it was discovered the failure was due to inherent properties of the solid core O-ring. It was determined that the compression led to deformation and material memory returned to its original form. When the seal is in operation, deformation drives the forces that push the material onto the surfaces, causing it to extrude and fail.

Following further examination, ERIKS offered two specially designed perfluoroelastomer (FFKM) profiled seals. The recommended seals had larger contact surfaces than the original O-rings and would fill the groove to reduce the possibility of product contamination. The design also provided a sharp profile which will help clean the surface of the bowl as it closes.

OTHER BENEFITS

- Reliable, long-term sealing performance
- Higher temperature stability of up to 327°C
- Perfluoroelastomer material resists over 1,800 different chemicals
- ERIKS design and manufactured

FURTHER COMMENTS...

The customer is pleased with the solution and has now placed numerous seal orders to resolve future centrifuge issues.

MORE INFORMATION

ERIKS Industrial Services

Amber Way, Halesowen,
West Midlands B62 8WG

Tel: 0845 006 6000

Web: www.eriks.co.uk