



CASE STUDY - GENERAL INDUSTRY - WASHING BARREL ROTARY COUPLING

Background

Animal hides are washed within rotary barrels in a caustic solution to remove contaminants prior to processing the leather. The barrels have a rotary hydraulic coupling fitted at the drive end, traditionally manufactured in steel and brass.



Disadvantages

- Due to the highly corrosive environment the couplings had only a 1 year lifespan
- Seizure often occurred
- Significant cost of downtime to replace/maintain coupling

Solution

After careful evaluation of the application requirements, the couplings were replaced with a hybrid coupling consisting of Devlon S grade flanges, a Devlon T100 body and a PTFE inner.



Advantages

- Coupling does not corrode
- Lifetime extended to in excess of 7 years
- Virtually eliminated downtime