CASE STUDY

KĀDANT

Corrugator Eliminates Steam Leaks with CorrPro® Cartridge Upgrade Kit

Challenge

The maintenance team at a Midwest corrugator was inadvertently rolling the cup seal when rebuilding CorrPro rotary joints. This coupled with thermal cycling on the machine was causing a leak path that steam cut the ductile iron piston and vented steam. The team was continuously rebuilding rotary joints, including a new piston and cup seal. They reached out to Kadant Johnson for a solution to simplify the rebuild process.

Solution

Kadant Johnson suggested a CorrPro cartridge upgrade kit to mistake-proof assembly and eliminate the impact of thermal cycling. The kit features a stainless steel piston to prevent steam cutting and O-ring secondary seals for easier installation and robustness to thermal cycling. The kit is a drop-in upgrade to existing CorrPro rotary joints and is designed to operate under 200 psi (13.8 bar), well within most corrugator operating conditions.

Results

After installing the CorrPro cartridge upgrade kit, steam leaks were eliminated and the labor to service rotary joints was reduced. The pre-assembled, drop-in cartridge enabled fast and easy upgrades to existing equipment and any future maintenance.

Highlights

- Drop-in upgrade for CorrPro rotary joints
- Operational at or below 200 psi (13.8 bar)
- Minimal installation requirements
- Stainless steel piston resists corrosion and steam cutting
- Dual O-ring secondary seal is more robust to thermal cycling

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