

Case Study: GYLON EPIX® 3500 Pulp and Paper Manufacturer



INDUSTRY

Pulp and Paper

CUSTOMER

Multinational provider of pulp and paper products.

BACKGROUND

The customer specializes in processing wood and, paper pulp for paper and bio-refinery applications.

CHALLENGES FACED

The customer was experiencing flange leakage on a rotary valve that was such a problem it was named "The Tramitizer". The constant failure of the gaskets allowed the ingress of air into the system which reacted with the sodium lignosulfonate powder and solidified it, which ruined the batch and rendered it unusable. The gaskets had to be routinely changed every 2 to 3 weeks to maintain system integrity and to minimize product losses.

OPERATING CONDITIONS

Temperature – 176°F (80°C)

Application – Rotary valve fitted with custom flat flanges utilizing 12 – M16 (approximately 5/8") bolts and full face gaskets.

Media – sodium lignosulfonate

Pressure – Vacuum

Size – 300mm x 455mm (11.8" x 17.9") and 320mm x 455mm (12.6" x 17.9")

SOLUTION AND BENEFITS

The mechanical foreman on site confirmed that the first GYLON EPIX® 3500 gasket was installed in June of 2019 and is still in operation as of January of 2020, far exceeding the life of former gaskets. Due to the success, plant maintenance is planning to install GYLON EPIX® in more rotary valve flange connections and steam applications.



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