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Case Study: GYLON EPIX® 3510 Manufacturer of Paper Board/Packaging

INDUSTRY
Pulp and Paper

CUSTOMER
Paper Board/Packaging Manufacturer

BACKGROUND
This manufacturer produces paper board and paper packaging products. The two main medias being used in this application are white liquor and wash stock.

CHALLENGES FACED
The flanges on two stainless steel valves were a source of chronic leakage. One valve is an 8" ball valve used in caustic liquor service and the other a 24" gate valve. The customer was using gaskets made of metal inserted PTFE, e-PTFE tape and EPDM rubber to seal the flanges of ball and gate valves. The use of stainless steel bolts limited the amount that the flange could be tightened. Leaks would occur with regularity after installation creating safety and housekeeping issues.

OPERATING CONDITIONS
Temperature: White Liquor: Ambient, Wash Stock: 100°F - 115°F (37°C - 46°C)

Media: Caustic White Liquor & Wash Stock

Pressure: White Liquor: gravity flow, Wash Stock: 85 psig

Size: 8" ball valve with flanges (White Liquor), 24" gate valve with one connection tapped and the other side flanged (Wash Stock)

SOLUTION AND BENEFITS
Garlock recommended GYLON EPIX® Style 3510 to the customer due to its innovative hexagonal surface design which increases conformability and recovery. GYLON EPIX® Style 3510 was installed in March of 2019 using standard installation practices, utilizing hand wrenches. As of April 2020, there continues to be leak free performance with no retightening required.

For more information, please visit:
http://www.garlock.com

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