Garlock

Case Study: GYLON EPIX® Style 3504 Mining

INDUSTRY

Mining

BACKGROUND

A world leader in the production of Potash, a nutrient essential for growing crops, needed to replace a gasket used in a natural gas line feeding their boiler room.

CHALLENGES FACED

The customer used compressed fiber gaskets, but this solution was unreliable each time their system started up. Once installed, the gasket seals failed as process piping went up in temperature and pressure, causing production downtime.

To add to the challenge, most flanges were in tight locations, making it difficult to insert a new gasket. For this reason, Spiral Wound metallic gaskets could not be used.

OPERATING CONDITIONS

Size: NPS 6

Temperature: Ambient ranging from 15 to 25˚C (59 to 77˚F)

Application: Gas lines in a potash mine boiler house

Flanges: Flat-faced, Class 150

Bolts: B7 studs with 2H nuts

Media: Natural Gas

Pressure: 55 psig (3.8 bar-g)

SOLUTION AND BENEFITS

To address these issues, the customer switched to GYLON EPIX 3504 Gaskets. The gaskets' reduced thickness and mechanical integrity made installation more manageable in the small opening between flanges. These EPIX 3504 gaskets also retained a tight seal through the start-up process and have been in service without failures or leaks since May 2020.

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

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