

Case Study:

Fast manufacture of bespoke metallic gasket saving site from significant unplanned downtime

Problem

It was discovered that internal parts in a vertical tower risked flowing up to a safety control valve and preventing it operating. A solution was needed within a short lead time as a permanent fix would take a much more lengthy plant shutdown.

Risk of safety control valve failing

Application

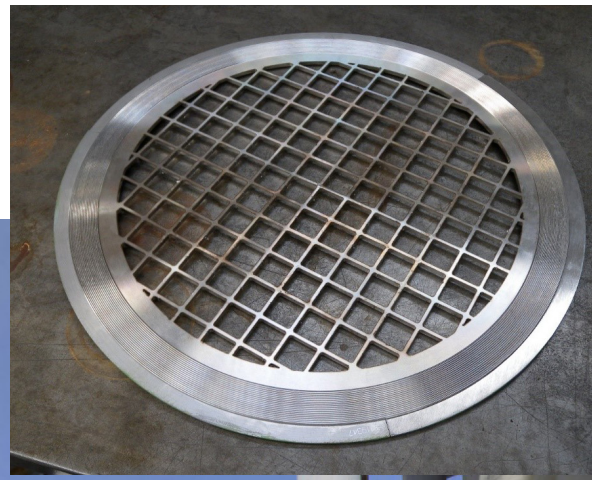
ASME standard pipeline at entry to safety critical valve

Existing solution

Standard semi-metallic gasket

James Walker solution

James Walker used their expertise in gasket manufacturing to design a kammprofile gasket strainer made as one piece and installed it safely in the tower top outlet/vertical piping through a very quick plant shutdown. The strainer prevents passage of the tower internals and thus allowed time to carefully plan the proper corrective action to the tower in the next suitable major turnaround.



Results and benefits

Integrated strainer gasket is not a permanent solution, but the fast design and supply of a gasket allowed the platform to operate while planning the required design change, in the customer's own words...
"10K USD solution (material and manpower) vs potential loss of millions."

Continue to operate while planning the required design change



Avoiding any unplanned shutdowns



No product lost to flaring



Safety valve no longer compromised



Gas retained in system for conversion to profit

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