



CASE STUDY

ON-LINE LEAK SEALING – EMERGENCY INJECTION CLAMPS

Key Takeaways

- All four leaks sealed quickly and safely.
- Avoided costly shutdown, saving the operator significant expense.
- Eliminated safety and environmental risks associated with hydrocarbon leaks.



The Challenge

At a UK refinery, four valves on a hydrocarbon service line were leaking. A shutdown to repair them would have resulted in significant production loss and financial penalty for the operator.

The requirement was to stop the leaks on four separate 6" Class 150 valve bonnet flanges while keeping the refinery fully operational.

Service: Hydrocarbons

Pressure: 21 bar

Temperature: 375°C

Our Approach

MOSS proposed designing and installing bespoke injection clamp systems that could be fitted and sealed under live process conditions, eliminating the need for a costly shutdown.

Implementation

Within two days of receiving the purchase order, MOSS designed and manufactured the bespoke flange clamps to suit each leaking application.

Skilled technicians mobilised to site, fitted the clamps using non-destructive techniques, and injected the sealing compound.

The work was carried out safely and without interruption to operations.