

## CASE STUDY

# Bespoke Valve Repair

## MAJOR OIL REFINERY



### THE BRIEF

The project took place on one of the largest oil refineries in Western Australia with a diesel refining capacity of approx. 150,000 b/day.

A diesel oil leak at 310 degC occurred on the 16" oval bonnet valve posing a threat to refinery operation and personnel safety.

SRJ was engaged to design, engineer and fabricate an enclosure repair to seal the leak and assure ongoing containment.

### THE SOLUTION

SRJ delivered a custom enclosure repair by accurately matching the complex profile with CNC machining using a SolidWorks CAD model.

The bespoke enclosure incorporated peripheral seals that fitted against the flange surface and a sealing compound was injected through valves installed into drilled ports. To complete the installation, finger clamps were used to position the enclosure.

The solution delivered a safe and secure repair to the bonnet valve flange.

***SRJ DELIVERED A TOP-QUALITY JOB IN A TIMELY MANNER. THE TEAM WAS SWIFT TO RESPOND AND A PLEASURE TO WORK WITH.***

- Facility Project Manager

### VALUE DELIVERED



#### CUSTOMISED SOLUTION

Delivered a bespoke enclosure repair designed for the unique requirements of a complex bonnet valve flange.



#### IMPROVED SAFETY

Secured flange integrity and prevented major containment losses – minimised personnel's exposure to high temperature hazardous medium.



#### LOCAL MANPOWER – TIMELY DELIVERY

Local team and manufacturing enabled rapid response and delivery – complete engineering pack issued in under 48 hours.



#### QUALITY WORKMANSHIP

Works delivered safely and efficiently.



#### CONTINUOUS OPERATION

Enabled minimal impact on production and reduced shutdown time



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