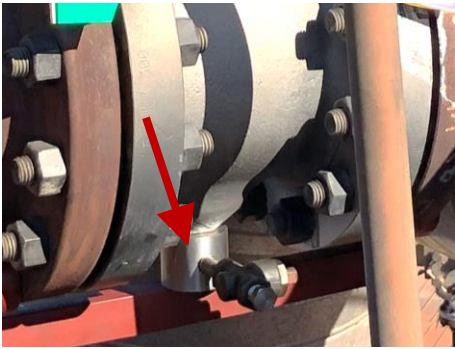


Steam valve repair enables continuous operations of a major Alumina Refinery

SRJ CASE STUDY, Australia, 2020



Pressure:	18 barg
Temperature:	260 degC
Valve size:	6 inch
Medium:	Steam

“

SRJ REPAIR WAS QUICK AND EASY TO INSTALL. THE QUALITY OF DESIGN AND MANUFACTURE WAS SIMPLY EXCELLENT.

– Installation Project Manager”

PROJECT BRIEF

The project took place at a major Alumina Refinery on Australia's East coast. A 6" Class 300 valve was leaking Steam at 260°C from the bottom plug.

The steam supply is critical to the operation of the refinery and shutting down the line for a conventional repair was not considered an option.

SRJ was engaged to design, engineer and fabricate an enclosure repair and arrest the leaking steam.

SRJ SOLUTION

A compact, bespoke repair was developed to locally enclose the leak without having to enclose the whole valve. An innovative strongback used to secure the enclosure against the valve body.

Unique lugs were designed to hook over the existing flange studs and nuts and were able to be installed without the need for any hot bolting of the flange studs.

Once the strongback tie bars were tightened, the enclosure cavity was injected with sealant compound and the leak was arrested, reinstating the valve integrity and safe operations.

DELIVERED VALUE



CUSTOMISED SOLUTION: A fully bespoke repair with a strongback to suit 6" 300# valve bottom plug.



IMPROVED SAFETY: Prevented major containment loss and minimised personnel's exposure.



OPTIMISATION: A compact, localised repair design enabled a timely and cost effective solution.



CONTINUOUS OPERATION: The steam supply was uninterrupted during the repair installation.



LOCAL MANPOWER – TIMELY DELIVERY: Completed full engineering work-pack in under 36 hours enabled faster repair sign-off and delivery.

SRJ provides specialised engineering services and containment management solutions for piping systems. Contact us for more information.

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