

BELZONA SEALS VALVE LEAK AT DESALINATION PLANT

CUSTOMER

Desalination Plant, Australia

APPLICATION DATE

September 2010

APPLICATION SITUATION

Plug and seat valves which are constructed from saf 2507 super duplex to carry polished seawater (pH 6.9 Temp 17-26 Deg.C) at an operating pressure of 65 bar.

PROBLEM

The sealing faces of the plug and seat valves corroded and were leaking due to galvanic and crevice corrosion.

PRODUCTS

Belzona 1111 (Super Metal)

SUBSTRATE

Super duplex

APPLICATION METHOD

Application was carried out in accordance with Belzona System Leaflet VPF-13. Protective sleeves were placed over all cover studs to protect threads. Blank caps inserted inside liner and located just below area to be repaired preventing any damage whilst grit blasting. A company was commissioned to build a machining jig that allowed the faces to be machined in-situ and then rebuild with Belzona. Other faces of the valves were able to be removed and built up and machined off-site.

BELZONA FACTS

Where other attempts had been unsuccessful Belzona 1111 outperformed everything else. The plug and seat valve was disassembled seven months after the Belzona repair and showed no sign of damage.

PICTURES

1. 1. Damage caused by crevice and galvanic corrosion
2. 2. Grit blasted top face and plug
3. and 4. Finished repair with Belzona 1111 applied



1.



2.



3.



4.

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