

BELZONA SOLUTION FOR SEAWATER BUTTERFLY VALVES

ID: 10250



PROBLEM

An onshore client experienced severe erosion-corrosion in several butterfly valves, compromising their integrity and operational performance. A detailed technical assessment was conducted, followed by refurbishment and the application of corrosion protection systems to restore reliability and ensure optimal functionality.

APPLICATION SITUATION

Erosion-corrosion in multiple butterfly valves has led to operational disruptions, reduced efficiency, and increased maintenance costs. Implementing timely refurbishment and corrosion protection is critical to restoring valve integrity, minimizing the risk of unplanned shutdowns, and ensuring consistent, reliable performance.

APPLICATION METHOD

The application was performed in accordance with Belzona Know-How System Leaflets VPF-1 and VPF-2, ensuring adherence to industry best practices for corrosion protection and maximizing the equipment's service life.

BELZONA FACTS

With spare parts for these valves no longer available, conventional repair methods were not viable, making full replacement the typical option. However, Belzona provided a reliable and cost-effective alternative, eliminating the need for complete valve replacement. Impressed with the performance and quality of the application, the client approved extending the same solution to all 54 valves.

INDUSTRY

Oil & Gas

LOCATION

ABU DHABI, UNITED ARAB EMIRATES

APPLICATION DATE

January 2026

PRODUCTS

Belzona 1311 (Ceramic R-Metal)

Belzona 1321 (Ceramic S-Metal)

SUBSTRATE

Carbon steel

PHOTOS

1. Critical erosion-corrosion damage in butterfly valves.
2. Abrasive blasting was carried out to SA 2.5, achieving a 75-micron surface profile.
3. Belzona 1311 (Ceramic R-Metal) was used to rebuild the damaged areas.
4. Two coats of Belzona 1321 (Ceramic S-Metal) were applied to provide enhanced protection.

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

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