

Valve Body Assembly protected with Belzona

ID: 9935

Industry: Water / Wastewater
Application: CEP-Centrifugal Pumps
Substrate: Carbon steel
Products: Belzona 1111 (Super Metal), Belzona 1321 (Ceramic S-Metal)

Customer Location: Cape Town
Application Date: July 2018

Problem

The valve assembly had damage on it from erosion of years of use in the water industry. Most of the machine surfaces had to be repaired using Belzona.



Valve body assembly arriving for preparation and application



First coat of Belzona 1321 being applied



Second coat of Belzona 1321 being applied



Valve body assembly done

Application Situation

The customer was evaluating a costly replacement of a valve assembly. By selecting the Belzona solution, they avoided extended downtime and significant capital expenditure. The application was performed at the local Belzona Workshop, restoring structural integrity and providing long-term corrosion protection at a fraction of the cost of replacement.

Application Method

The internal surfaces were abrasive blasted to obtain a clean and rough surface with an anchor profile of approximately 3 mils. A chloride contamination test was performed after blasting to confirm surface suitability. Degreasing was then carried out using Belzona 9111. Areas with visible metal loss or damage were rebuilt using Belzona 1111 (Super Metal). After the rebuilding process, Belzona 1321 (Ceramic S-Metal) was applied in two coats, grey followed by blue, to ensure full coverage and long-term corrosion protection.

Belzona Facts

Belzona can protect the equipment for the long-term, preventing replacement of the equipment.

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ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

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