

# Valve Repair and Protection with Belzona

ID: 561

Industry: Power

Customer Location: Power plant, Egypt

Application: VPF-Valves, Pipes and Fittings

Application Date: June 2004

Substrate: Cast Iron

Products: \* Belzona® 1311 (Ceramic R-Metal) ,  
\* Belzona® 1321 (Ceramic S-Metal) ,  
\* Belzona® 5811 (Immersion grade) ,

## Problem

Old polypropylene lining was worn and damaged due to chemical attack.



## Photograph Descriptions

- \* The valve before repair ,
- \* Former made by casting with Belzona® 5811 ,
- \* Belzona® 1311 applied to the valve ,
- \* Two valves were repaired and protected ,

## Application Situation

Automatic chemicals valve.

## Application Method

Application was carried out in accordance with modified version of Belzona Know-How system leaflet VPF-1 and VPF-2. A former was made by casting Belzona<sup>®</sup> 5811 to take the inner shape of the valve. The eroded areas were then rebuilt with Belzona 1311,

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

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using the Belzona® 5811 former to restore the inner curvature profile of the valve. After finishing the surface it was coated with Belzona® 1321 to protect the valve.

## Belzona Facts

Belzona repaired the valve and protected it using simple economic means. It was important to retain the inner dimensions of the valve as this affects the performance of the valve.

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