

# Belzona repairs & protects control valve

ID: 8889

Industry: Chemical & Petrochemical  
Application: VPF-Valves, Pipes and Fittings  
Substrate: Stainless-steel  
Products: Belzona 1111 Supermetal

Customer Location: Scotland  
Application Date: November 2022

Belzona 1341 Supermetalgilde

Belzona 2941 Conditioner

Belzona 2141 ACR Fluid Elastomer

## Problem

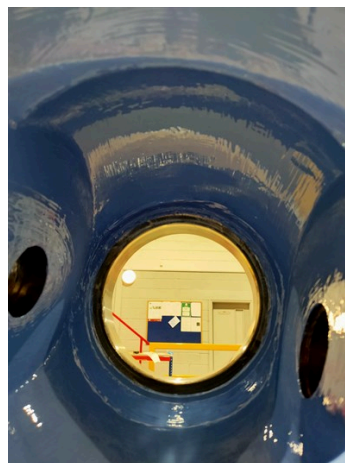
Welding of this part would be challenging due to the substrate involved. It would also not last in service any longer than the original metal.



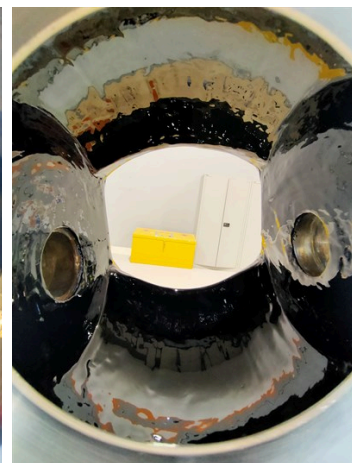
Valve showing internal parts



Close up of the cavitation damage



The damage rebuilt & the area coated with Belzona 1341 Supermetalgilde



Belzona 2141 ACR Fluid Elastomer applied

## Application Situation

A stainless steel control valve had suffered from cavitation erosion in service. The erosion had gone through wall in some areas of the valve body.

## Application Method

The valve was disassembled, the critical parts were protected with blasting tape & then the internal surface was prepared to SA2.5 & 75 microns.

Belzona 1111 was then used to rebuild the lost metal. Two coats of Belzona 1341 Supermetalgilde were then applied followed by one coat of Belzona 2141 ACR Fluid Elastomer.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

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

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

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**BELZONA**  
Repair • Protect • Improve

## Belzona Facts

By using the Belzona system the valve was able to be rebuilt easily with no risk of heat distortion. The combination of Belzona 1341 & Belzona 2141 provides excellent cavitation resistance for future protection from cavitation in service.

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