

BELZONA REPAIRS & PROTECTS CONTROL VALVE

ID: 8889



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.

APPLICATION SITUATION

A stainless steel control valve had suffered from cavitation erosion in service. The erosion had gone through the 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.

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.

INDUSTRY

Chemical & Petrochemical

LOCATION

Scotland

APPLICATION DATE

November 2022

PRODUCTS

Belzona 1111 Supermetal

Belzona 1341 Supermetalgilde

Belzona 2941 Conditioner

Belzona 2141 ACR Fluid Elastomer

SUBSTRATE

Stainless-steel

PHOTOS

1. Valve showing internal parts
2. Close up of the cavitation damage
3. The damage rebuilt & the area coated with Belzona 1341 Supermetalgilde
4. Belzona 2141 ACR Fluid Elastomer applied

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