Belzona repairs & protects control valve

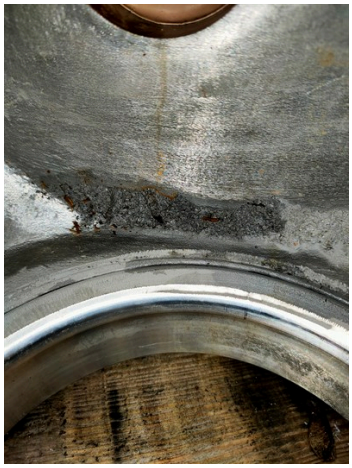
ID: 8889

Industry:	*Chemical & Petrochemical*	Customer Location:	*Scotland*
Application:	*VPF-Valves, Pipes and Fittings*	Application Date:	*November 2022*
Substrate:	*Stainless-steel*		
Products:	*Belzona 1111 Supermetal*		
	Belzona 1341 Supermetalglide		
	Belzona 2941 Conditioner		
	Belzona 2141 ACR Fluid Elastomer		

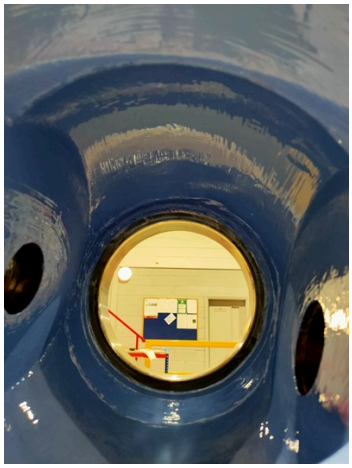
Problem

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

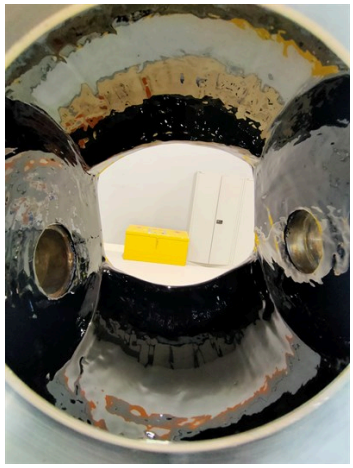
Valve showing internal parts



Close up of the cavitation damage



The damage rebuilt & the area coated with Belzona 1341 Supermetalglide



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 Supermetalglide 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.