

BELZONA 4301 PROTECTS FLANGE FACE FROM SULFURIC ACID

ID: 7531

Industry: Food & Drink
Application: VPF-Valves, Pipes and Fittings
Substrate: Mild Steel
Products: * Belzona 4301 (CR1 Hi-Build) ,

Customer Location: Pharmaceuticals Company, Scotland, UK
Application Date: November 2016

Problem

Cutting and welding was deemed to be unacceptable due to the damage that would be caused to the lining inside the nozzle and the safety concerns. A flange face and surrounding bolts had become corroded from contact with Sulphuric Acid. The loss of metal in the flange was causing significant leaks around the flange. This led to environmental and safety concerns.



Photograph Descriptions

- * 1 - Damaged flange face & bolts ,
- * 2 - Flange prepared & profile checked ,
- * 3 - Former bolted in position ,
- * 4 - Former removed, bore dressed down & induction heat coil in place ,

Application Situation

The loss of metal in a flange was causing significant leaks around the flange. This led to environmental and safety concerns.

Application Method

The face was prepared using an MBX bristle blaster. A blank flange was used to form the face using a modified version of Belzona system leaflet VPF-13. Time was an issue so induction heaters were brought in to force cure the product. The cured product was machined back once the former was removed.

Belzona Facts

Cutting & welding the flange was not possible due to the safety implications it would have caused onsite. Replacement would have been more expensive, cause longer downtime and experience the same problems they had before.

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

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