

# NOZZLE REPAIR WITH BELZONA INSERTS

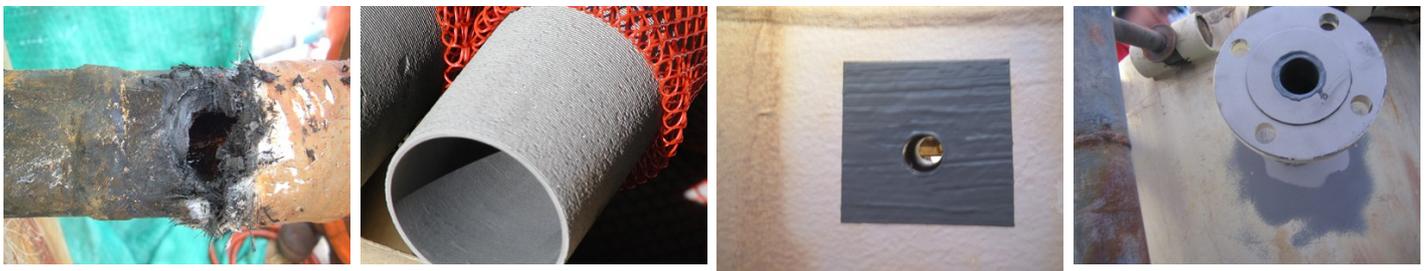
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**Industry:** Marine  
**Application:** TCC-Tanks and Chemical Containment Areas  
**Substrate:** Carbon steel  
**Products:** \* Belzona® 1111 (Super Metal) ,  
\* Belzona® 1321 (Ceramic S-Metal) ,

**Customer Location:** North Sea Platform  
**Application Date:** September 2005

## Problem

Current repairs to corrosion damage in small bore pipe work not working. They were failing quickly due to the inability to prepare the nozzle internal correctly and apply the coating pinhole free.



## Photograph Descriptions

- \* Typical small bore nozzle damage (note this cannot be repaired with an insert!) ,
- \* Typical Belzona® 1111 insert ,
- \* Insert bonded into the nozzle from inside vessel and surrounding coating repaired ,
- \* Insert bonded into position from the flange ,

## Application Situation

Small bore nozzles in sea water Hyperfilter units.

## Application Method

An insert made with Belzona® 1111 to match internal bore is bonded in using Belzona® 1321 in accordance with TCC-16b.

## Belzona Facts

Where the structural integrity of the nozzle is still intact, but corrosion is eating into the corrosion allowance of the nozzle, the use of a Belzona Nozzle Insert solution avoids the need for cropping the nozzle and welding a new nozzle in place. The Belzona system ensures that the coating is continuous along the nozzle length, and has been adopted in both repair and original equipment manufacture situations by many operators.

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

ISO 9001:2015  
FS 695214  
ISO 14001:2015  
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manufactured under an ISO  
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