

Small Bore Fitting Vibration Damping

Overview

Traditional clamping solutions to mitigate vibration of small bore fittings were either not effective or were not a permanent solution. ICR.IAS JV conducted a rapid development, prototype and deployment program of our Vibration Bracing product as a successful solution to mitigate vibration.

All development and engineering was conducted in-house as we worked with the operator over a 6 month period to deliver the successful product, which has now been rolled out widely across multiple assets.

Scope

The repairs had the following specifications:

Structure	Small bore fittings
Surface Preparation	ST3
Installation	No Hot Work
Design Temperature	5°C - 90°C
Application Temperature	30°C
Design Life	20 years
Geometry	Straight
QA/QC	Rapid low cost engineering with close out QA



Surface preparation and location



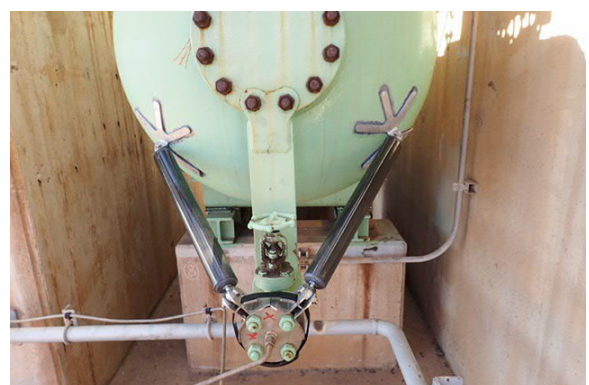
Fitting Installation

Solution

- Flexible and rapid response to engineering problem for applying structural adhesives
- Established workflow for low cost delivery
- Structural adhesives and composites for a no hot work, no corrosion solution
- Can be applied by a wide range of trades with a short training program

Benefits

- Low cost and rapid scope identification to solution
- No hot work.
- Long term solution
- Supported by appropriate test data to meet client defined success criteria



Completed vibration fittings