

Bondstrand Retrofit Applications

Bondstrand retrofit application.

Corrosion of metallic piping is a well known problem on board seagoing vessels and offshore units. Corrosion always occurs when the piping is part of seawater systems and also in systems using acids such as for cleaning like evaporators, chemicals and other corrosive fluids.

Traditionally, corroded piping is replaced from time to time by new pipes made of the same material. This means the defect is repaired, but the problem is not solved. Future replacement of the same pipe is only a matter of time.

Leaking seawater lines are a nuisance aboard ships, especially in the engine room. Seawater spraying or dripping from leaking pipes may also result in collateral damage to surrounding equipment and instruments.

For many shipowners and offshore operators, the exchange of piping is regarded as part of the daily routine. The time it takes to have corrosion problems can be more or less predicted based on experience and is often accepted as a fact of life. No questions are asked and systems are being repaired and replaced frequently.

The question is: “Do you have to accept repeated pipe replacement due to corrosion problems in your seawater piping system?”

The answer is: No. Corrosion does not have to be a problem.

Solution

We offer the solution to your corrosion problems aboard ships and offshore units. Bondstrand™ Glass fiber Reinforced Epoxy (GRE) pipe systems have a number of significant advantages when compared to steel or other metallic piping.

Bondstrand pipe systems are extremely resistant to corrosion from salt water and to a wide range of chemicals. Additionally, there is almost no scaling and low pressure loss.

Bondstrand Glassfiber (GRE) pipe systems are easy to install, lightweight and can be designed to operate at temperatures up to 121°C.

Since 1957, Bondstrand piping systems have been installed successfully and proven their performance on thousands of ships and offshore units all over the world.

Bondstrand Retrofit Applications



Wide Range of Applications

- Air and equipment cooling water
- Ballast/segregated ballast
- Brine
- Chlorinated systems
- Crude oil washing
- Deck hot air drying (cargo tanks)
- Drainage/sanitary service/sewage
- Eductor systems
- Electrical conduit
- Exhaust piping
- Fire mains and sprinkler systems
- Fresh and salt water systems
- Inert gas effluent
- Main engine cooling
- Petroleum cargo lines (cargo tanks)
- Discharge lines
- Scrubbers
- Steam condensate
- Tank cleaning (salt water system)

Class Approved

Major certifying bodies such as Lloyd's Register, Bureau Veritas, Det Norske Veritas GL, American Bureau of Shipping, RINA, RMRS, etc. have adopted and implemented the IMO Guidelines in their respective Rules and Regulations for the Classification of Ships. Bondstrand pipe series that are used in the marine/offshore industry are Type Approved by all major certifying bodies.

Bondstrand piping systems include easy to install standard filament wound fittings. When standard fittings can not be used, laminated fittings and spools can be tailor-made to fit almost any system. Replacement can take place at sea during the voyage, at anchorage, during regular loading and discharge operations or during dry dock periods. In all of the above, Bondstrand piping can be installed without need for any "hot work".

Wide Range of Fitting and Custom Made Solution

Standard filament-wound couplings and elbows, tees to concentric reducers, flanges and nipples. ANSI B16.5 Class 150 and 300, DIN, ISO and JIS flanges and other drilling patterns are available.

Worldwide Approvals

Committed to Total Quality Management, NOV Fiber Glass Systems' facilities conform to the ISO 9001 standard and holds many approvals. Products can be manufactured to meet specifications.

Global Service Network

Our Global Service Network Program is designed to provide owners and operators of Marine and Offshore ships and facilities with fast response, comprehensive, professional repair and replacement services with Bondstrand piping systems

What: A unique Global Service Network Program.

When: Within 48 hours of submitting your request.

Where: Around the world and across the globe no matter where you are, we are there, too. Whether at sea or at port, we meet you when and where you need us most.

Why: To provide an additional level of excellent service to our clients when needed most.

How: By having a partnership with the best in the industry and provide a fast response within 48hrs.