



CASE STUDY

MW Polymers works with Polyform™ on a 4" high pressure clamp for a gas utility company in the United States of America saving over with a cost saving of over 50%



Project Overview

The USA Utility company was struggling with a significant challenge related to a 4" High Pressure Clamp. This issue has arisen due to the deterioration and corrosion of the gasket, a vital component within the clamp system. The consequence of this gasket corrosion is the occurrence of unwanted and troublesome leaks along the flange of the coupling. These leaks pose a threat not only to the overall functionality of the coupling but also potentially to the safety and efficiency of the entire system it is a part of.

The presence of these leaks has necessitated immediate attention and a well-thought-out solution. The USA Utility company now finds itself in a position where addressing this problem effectively is of utmost importance to maintain the operational integrity of their equipment and prevent any potential disruptions or hazards.



MW Polymers Solution

The clamp underwent a series of restoration and treatment processes to ensure its durability and effectiveness. Initially, the clamp was grit blasted to remove any rust, corrosion, or old coatings, thereby exposing the sound metal underneath. This step is crucial as it provides a clean and stable surface for subsequent treatments.

Once the clamp's surface was adequately prepared, a primer was applied. Priming serves to enhance the adhesion of the final coating, offers an additional layer of protection against corrosion, and ensures a smooth and even finish.

After priming, the clamp was vented to allow for the release of any trapped air or moisture, preventing potential issues that could compromise the integrity of the coating.

Finally, a Polyform coating was applied. Polyform is known for its high-performance properties, including resistance to wear, impact, and various environmental factors. This final layer not only protects the clamp from future damage but also extends its service life and reliability in demanding conditions.



Result

The result of the restoration process described would be a thoroughly refurbished and protected clamp that is ready for use in its intended application. Here are the key outcomes:

1. **Clean and Sound Surface:** The clamp's surface has been cleaned of rust, corrosion, and old coatings through grit blasting, revealing sound metal underneath.
2. **Enhanced Durability:** The application of primer enhances the durability of the clamp by providing a strong base for the final coating. It improves adhesion and protects against corrosion.
3. **Moisture Management:** Venting after priming ensures that any trapped air or moisture is released. This prevents potential issues such as bubbling or poor adhesion of coatings.
4. **High-Performance Coating:** The Polyform coating provides superior protection against wear, impacts, and environmental factors. It extends the clamp's service life and ensures reliable performance in challenging conditions.
5. **Ready for Use:** Overall, the clamp is now restored to a like-new condition with improved durability and performance characteristics. It is ready to be installed and used effectively in its intended application, offering reliable functionality and longevity.

