PART OF ACTEON | ENERGY SERVICES

WAY AHEAD IN CORROSION CONTROL

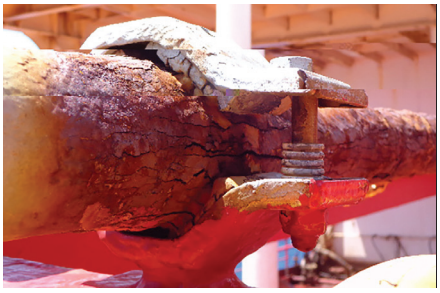
I-ROD®

ELIMINATE CORROSION AT PIPE SUPPORTS

MJ WILSON GROUP

THE PROBLEM:

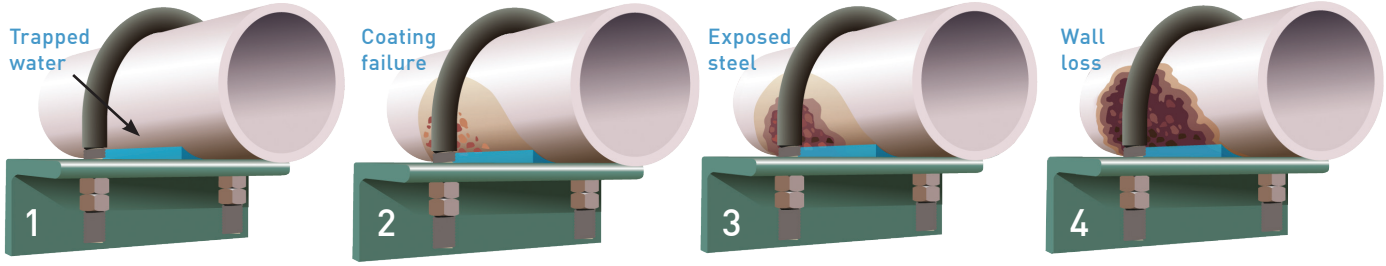
External corrosion at pipe supports is an extremely common problem that drives up maintenance costs and creates hazardous conditions.



THE CAUSE:

Metal-to-metal contact is not the main cause of corrosion at pipe supports. It's mostly due to crevice corrosion caused by trapped moisture. When moisture is trapped against a pipe and air can't circulate to evaporate it, corrosion damage is very likely to occur.

WHAT CAUSES CREVICE CORROSION?



Water becomes trapped in the crevice between pipe and support.

Coatings are put in immersion service; they soften and fail.

Bare steel is exposed to oxygenated water; corrosion begins.

Corrosion undercuts paint; localized wall loss on pipe begins.

THE ANSWER:

After constantly reporting severe pipe support corrosion during offshore inspections, Deepwater Corrosion Services developed I-Rod®, the only product that eliminates this widespread problem.

Scan for more I-Rod® info

MANUFACTURED BY DEEPWATER

OUR PARTNER MJ WILSON GROUP OFFER I-ROD®

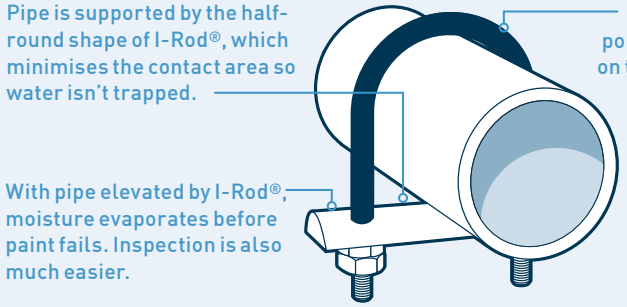
PROVEN TO PREVENT CORROSION AT PIPE SUPPORTS

I-Rod® is specified by most major oil companies and has been installed hundreds of thousands of times worldwide.

In over 30 years, there has never been a single reported failure of a pipe protected by I-Rod®.

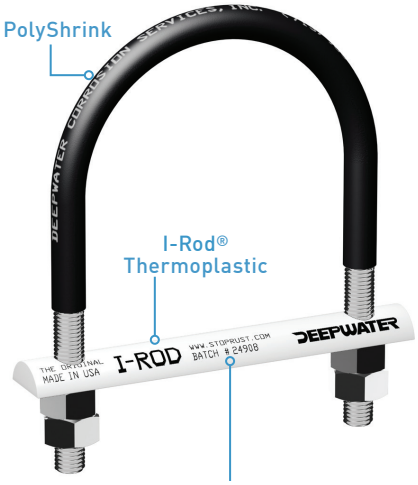
HOW I-ROD® WORKS:

When a round pipe is supported perpendicularly by the rounded edge of I-Rod®, the contact point is minimised so that there's no crevice. Water can't be trapped, so corrosion no longer occurs because air can circulate and evaporate moisture beneath pipes.



NU-BOLT™ ASSEMBLY

THE MOST POPULAR I-ROD® INSTALLATION METHOD



Real I-Rod® is printed with a traceable batch number, and each shipment includes a certificate of authenticity. Cheap, unmarked I-Rod® imitations are prone to rapid failure.

BOLT COATING CHOICES

HD Galvanized | SermaGard™ | 316 Stainless Steel

Designed by Deepwater's NACE-certified corrosion engineers, our Nu-Bolt™ assembly combines I-Rod® with a modified pipe-U-bolt.

Several corrosion-resistant bolt choices are offered to ensure long-term service in the harshest operating environments. For most applications, standard I-Rod® thermoplastic is the best material choice. It provides excellent support, tremendous compressive strength and low creep.

For higher-temperature applications above 83°C (180°F), the I-Rod® may be replaced with I-Rod® HT, which has higher melting temperatures and compressive strength. For even more extreme conditions above 340°C (171°F), PEEK is available for use in temperatures up to 249°C (480°F).

Bolt coating
Our standard U-bolt is durable galvanized black steel (GPS), but for added protection you can also choose 316 stainless steel (S6PS) or SermaGard®, a tough corrosion coating for severe conditions.

Polyshrink
Polyshrink is applied over the shank of the U-bolt to protect the pipe's paint system during installation; it is not designed to protect the U-bolt. The material is a strong, cross-linked polyolefin that is UV-stable and rated for service in temperatures up to 110°C (230°F).

Non-gripping option
Non-gripping Nu-Bolts™ are available for securing pipes to supports while leaving enough clearance to allow for movement due to thermal expansion.

I-ROD® ADHESIVE

I-Rod® adhesive is designed to securely anchor strips of I-Rod® in situations where drilling and bolting would be difficult. It's a great solution for using I-Rod® on solid concrete supports that can't be fitted with U-Bolts, or for locations where drilling through metal is restricted or would require a hot-work permit.

SADDLE CLAMPS

I-Rod® Clips eliminate crevice corrosion at saddle clamp supports, Grinnell clamps and pipe shoes, all of which tend to trap water. The clips snap into the inside diameter of the support and are held in place by the weight of the pipe and an adhesive strip, and can be easily retrofitted on existing pipe runs. They can be manufactured to fit any size clamp.

I-ROD® MAXIMUM OPERATING TEMPERATURES

I-Rod® white: 83º C (181º F)

I-Rod® HT (amber): 171º C (340º F)

PEEK: 249º C (480º F)

HOW TO ORDER

Pipe size

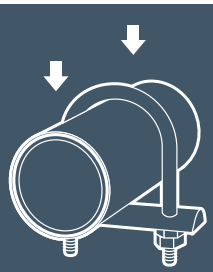
Measure the outer diameter of the pipe. Nu-Bolts™ are available in standard sizes that fit 1/2" to 36" diameters. Custom sizes are available. Pipes 8" and smaller use 1" I-Rod®; those 10" and larger require 1½" I-Rod®.

Temperature

Determine your pipe's maximum operating temperature. Use standard I-Rod® up to 181º F (83º C), I-Rod® HT up to 340º F (171º C), and PEEK™ up to 480ºF (249º C). The maximum operating temperature for polyshrink on U-Bolts is 230ºF.

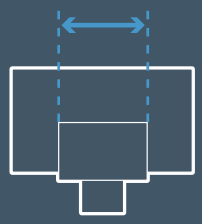
U-Bolt finish

Standard Nu-Bolts™ come with a long-lasting, hot-dip-galvanized finish. Alternate options include 316 SS or an ultra-durable Sermagard™ aluminum-ceramic coating for the harshest environments.



Weight load

Use the table at http://stoprust.com/products-and-services/nu-bolt/ to estimate the weight on each pipe support. Use up to three strips of I-Rod® to meet load requirements. Pipes 8" and smaller use 1" I-Rod®; 10" and larger require 1½" I-Rod®.



I-Rod®Clips

Measure the width of your saddle clamp, pipe hanger or support cradle. These are the edges that the I-Clips™ will snap over.

MJ WILSON GROUP

THE COMPLETE ENGINEERING AND PROCESS SOLUTION®

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