



PETROSEAL
ONLINE LEAK SEALING

Petroseal leak cases

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Website

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Presentation overview

01 Leak cases

Real world examples



02 Leak sealing steps

Our team makes sure every step counts.



03 Company numbers

Key figures at a glance



04 Meet our team

Experts behind the solutions



Tailor-made injected enclosure

Offshore - United Arab Emirates

 Natural gas  250°C  106 Bar  Preventive

Context

- A thermographic inspection was carried out on the main pipe connection.
- The internal thickness measured less than 2 mm.

Identified Risk

High probability of leakage.

Preventive Action

Installation of a compression enclosure to anticipate any leakage and secure the equipment.

Schedule

- July 2025: Detection and reporting of the potential leak.
- Early August 2025: Solution validated by the client.
- August 17, 2025: Installation of the protection box.



Tailor-made injected enclosure

Fertilizer - Spain



Steam



180°C



5 Bar

Context

Leak detected at the junction of two lines forming a T.

Specificity

Fragile junction requiring specific reinforcement.

Action

Installation of a T-enclosure with a dedicated restraint system to secure the weak joint.

Schedule

- Thursday, August 14, 2025 (early afternoon): Leak reported and study issued the same day.
- Tuesday, August 19, 2025: Installation carried out for the client.



Tailor-made injected enclosure

Petrochemicals - Spain

 Natural gas  20°C  17 Bar

Context

Weld crack

Specificity

Very limited space due to nearby obstacles, and the need to integrate a clamp already installed by the end user as a temporary securing.

Action

Design and installation of a custom-made enclosure, tailored to the restricted environment and accommodating the pre-existing clamp.

Schedule

- Case received on 21/08/2025, study sent the same day
- Fabrication was carried out by the client, with installation completed on 25/08/2025.



Tailor-made injected clamp

Refinery - Romania



Steam



360°C



50 Bar

Context

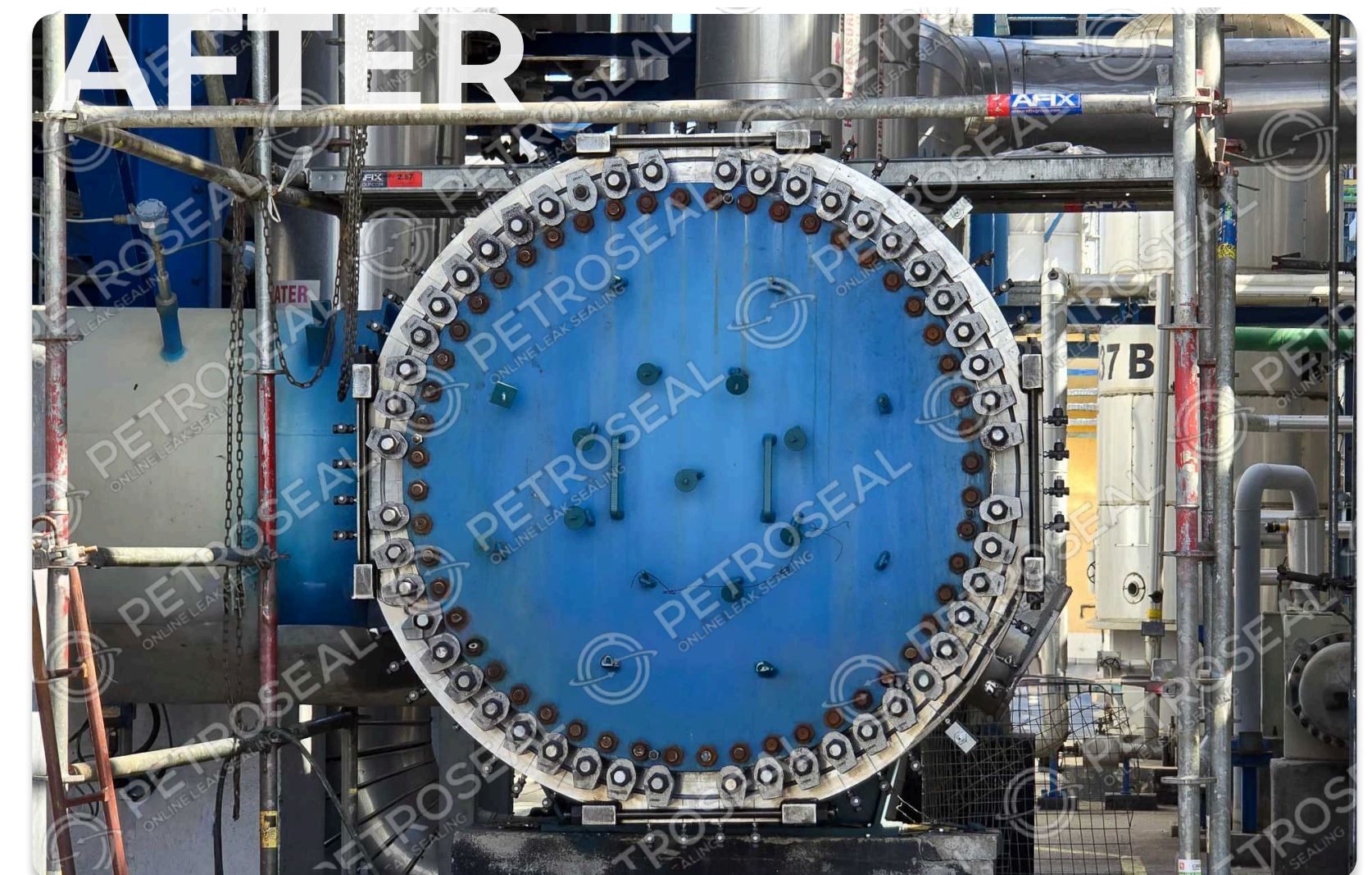
Exchanger head: Flange gap leak

Specificity

Leak at the interflange of an exchanger head. The large diameter and multiple small obstacles around the flange made the measurement process difficult.

Action

Measurement and installation of a custom-made injection clamp, ensuring precise fit and secure sealing despite the complexity of the environment.



Tailor-made injected clamp

Refinery - Greece



Gas



580°C



4.5 Bar

Context

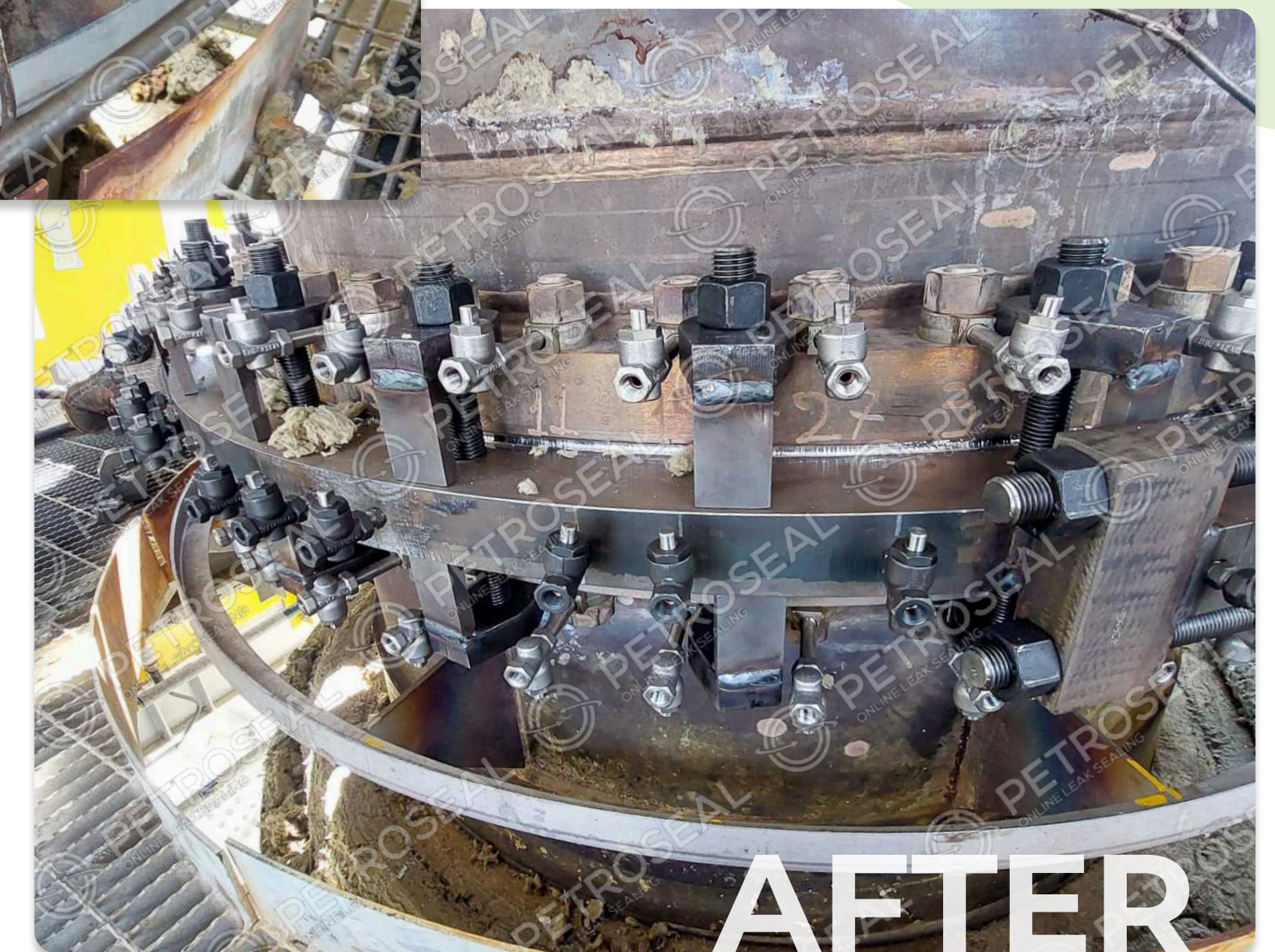
Flange gap leak

Specificity

Large-diameter leak (Ø 5190). Due to the size, the client preferred Petroseal to perform both the measurement and the installation.

Action

Design of a custom-made injection clamp. On-site measurement, installation, and injection were carried out by Petroseal over two days.



Tailor-made injected enclosure

Refinery - Greece



Gas



59°C



15.8 Bar



Preventive

Context

Preventive installation following thickness measurements on critical piping for the client.

Specificity

The configuration required special attention, as the corroded pipe could not support additional load.

Action

On-site measurement and installation.

The design incorporated a compression system with weight retention on the metallic solution itself, avoiding stress on the weakened piping.



Tailor-made injected clamp

Refinery - Greece



Steam



295°C



52 Bar

Context

High-pressure steam leak at the interflange area, requiring a reliable and safe solution to reassure the client under operating conditions.

Specificity

The presence of a blind flange in the initial flange set required a special design to accommodate the geometry of the remaining part of the spade after cutting it.

Action

Design and installation of a custom-made injection clamp ensuring effective sealing and enhanced confidence in operation.



Tailor-made injected clamp

Fertilizer - United States of America



Gas



235°C



50 Bar

Context

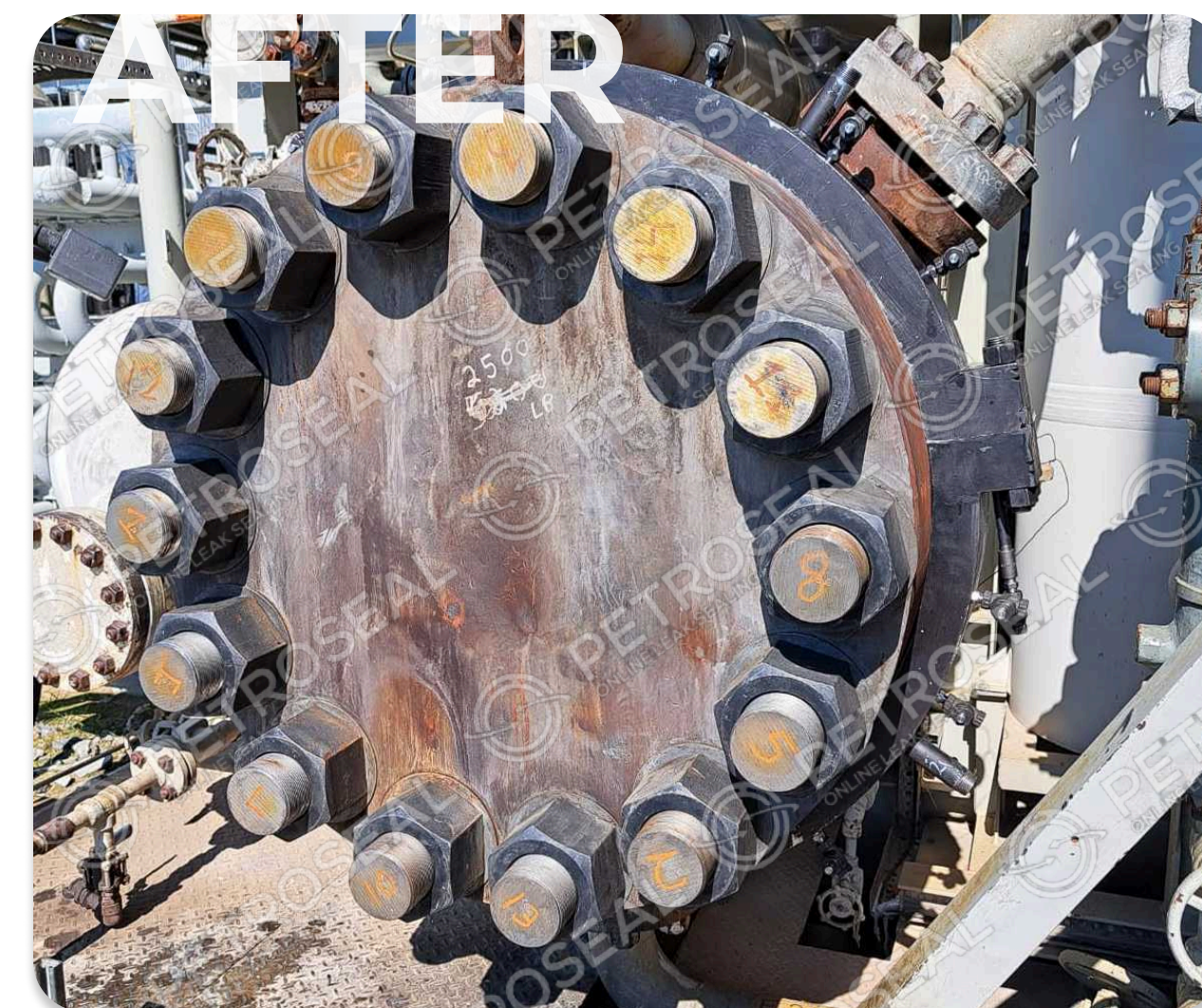
Leak bypass

Specificity

A complex gas mixture: Ammonia, Hydrogen, Nitrogen, Argon, and Methane

Action

Installation of a custom-made clamp, with two grooves for the compression of the packing and one groove to divert the leak to the outside.



Tailor-made injected clamp

Refinery - Sweden



Gas



68°C



20 Bar

Context

Gas leak at the bonnet flange

Specificity

Very narrow flange gap and tilted flanges

Action

Installation of a classical clamp with stiffeners and a narrow central lip.



Tailor-made injected clamps

Refinery - Ivory Coast



Diesel



210°C



7.5 Bar

Context

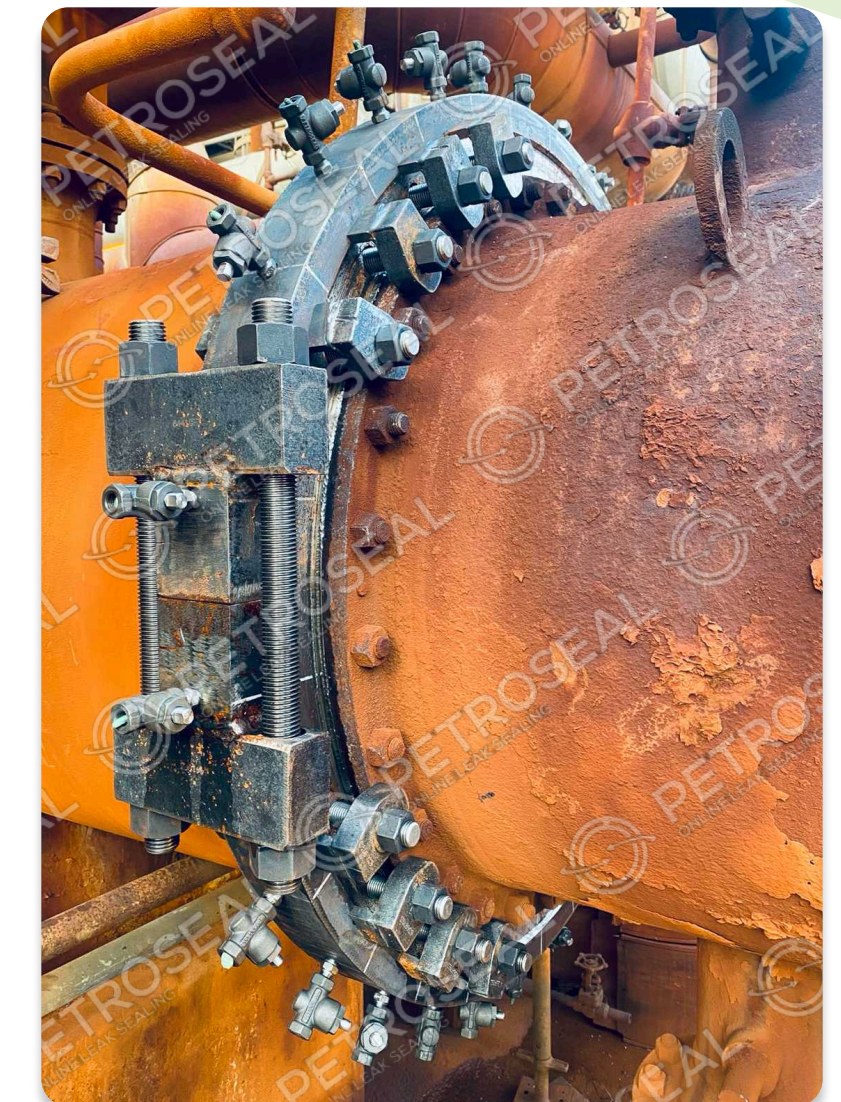
Oil leak on a critical heat exchanger in the cracking unit of the refinery.

Specificity

Leak on two Ø1100 flanges, one flat face and one raised face.

Action

On-site measurement and manufacturing within 48h – installation in Ivory Coast within 5 days.



Tailor-made injected enclosure

Refinery - Poland



Hydrogen



80°C



160 Bar

Context

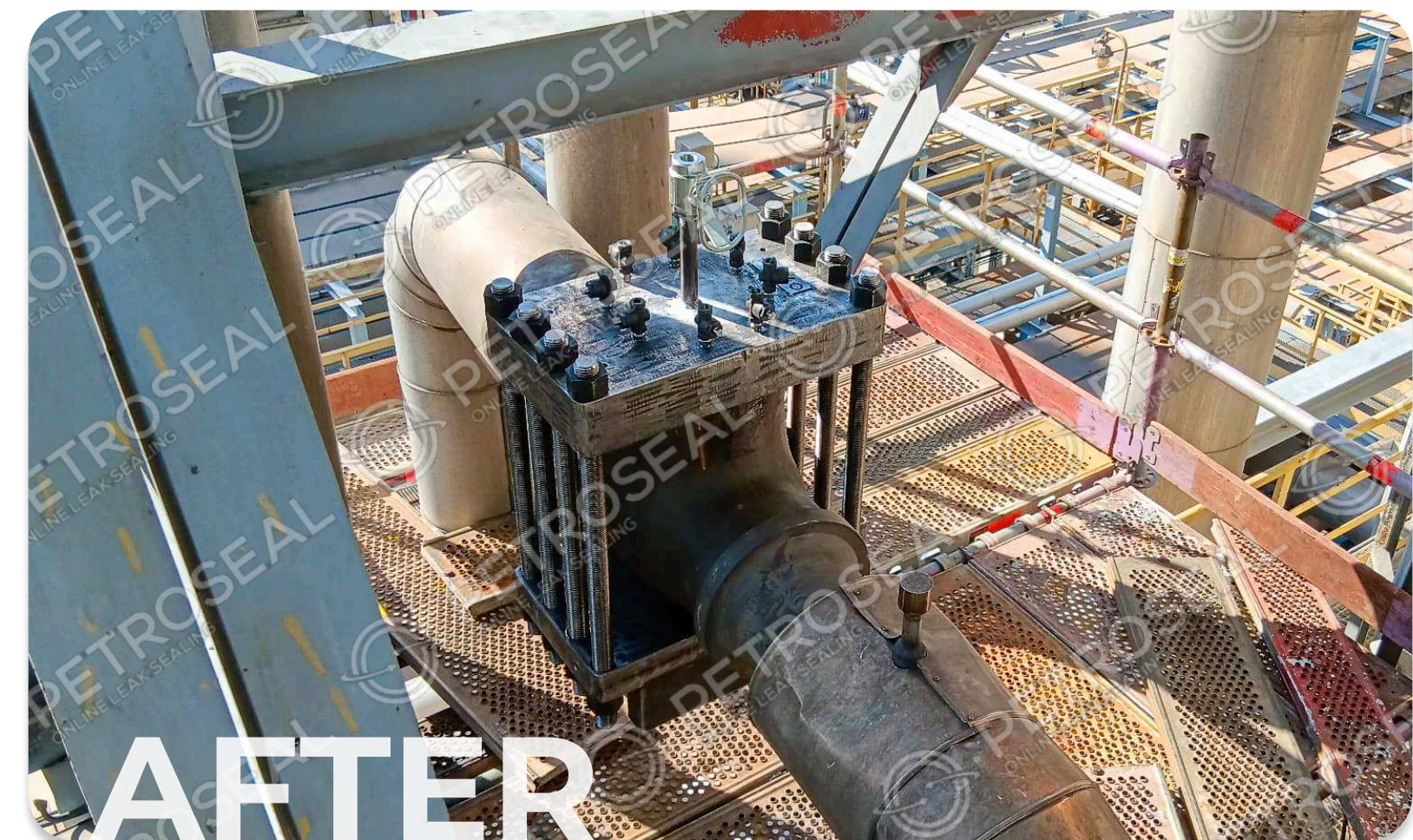
Leak on an autoclave valve.

Specificity

A complex case both in terms of design, due to the specific operating conditions of an autoclave valve. And in terms of installation, involving a high-temperature environment and injection operations, particularly when handling hydrogen.

Action

Design and installation of a custom-made enclosure



G-clamp

Pulp and paper mill - Uruguay



Steam



165°C



120 Bar

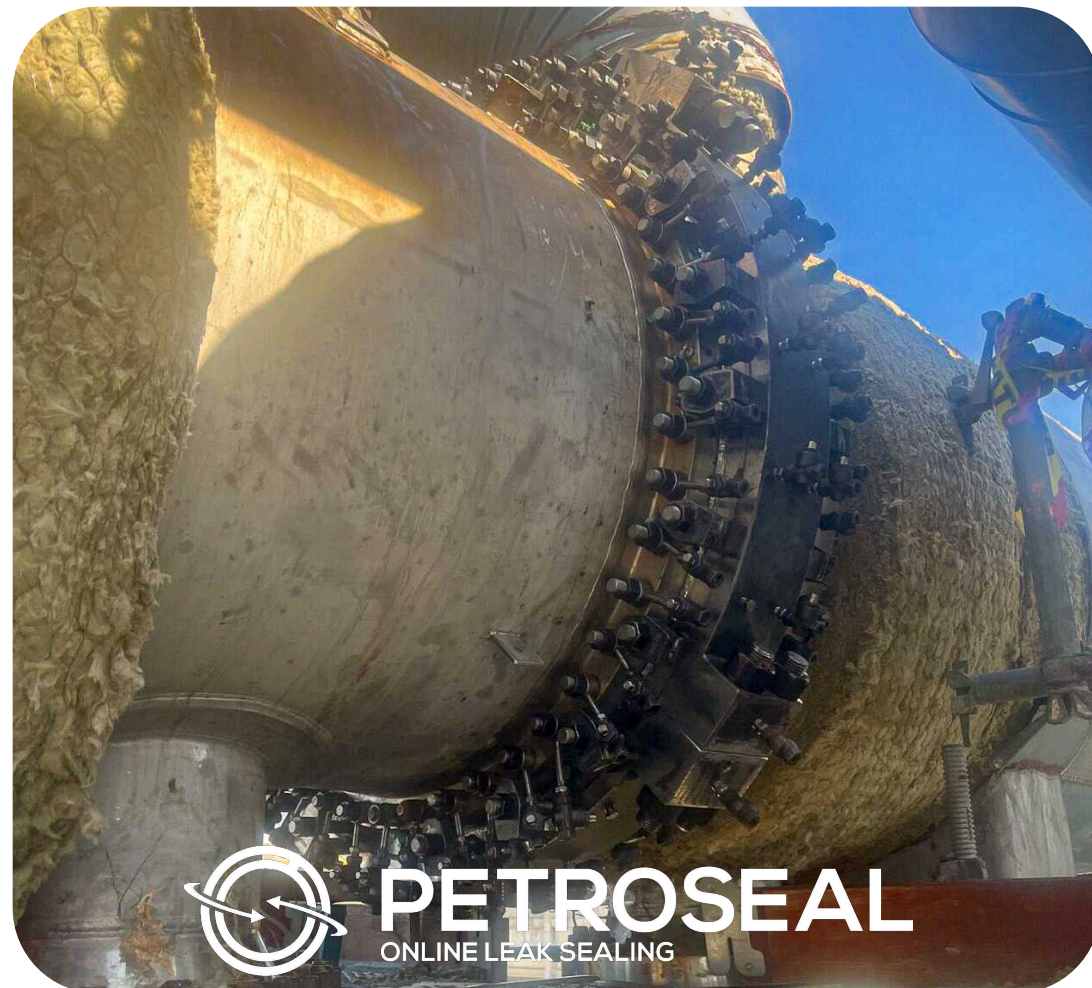
Context

Packing leak on a valve.

Action

Design of G-clamp, and installation by Petroseal during the training session, allowing the execution of a real case.





1

First contact

One of our team members takes the time to understand your challenge in detail because no two leaks are the same.

3

Manufacture

Every product meets ASME standards, ensuring performance you can trust in the toughest environments.

2

Plan design

Within 24 hours, our engineering team delivers a tailored plan designed to keep your operations running safely.

4

Delivery

Once ready, your solution is shipped to you, ready to be installed to stop the leak before it stops your operations.

Our company numbers

24 hours

Design support

85+

Presence country

7/7

Engineering

15000

Leaks sealed annually

Meet our amazing team

A group of dedicated experts combining technical excellence and innovative thinking to deliver the best solutions.



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Baltics, Caucasus
& Central Asia

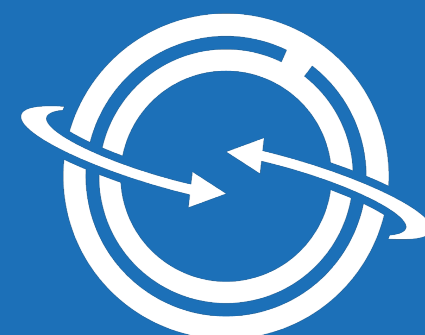
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Thank you!

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