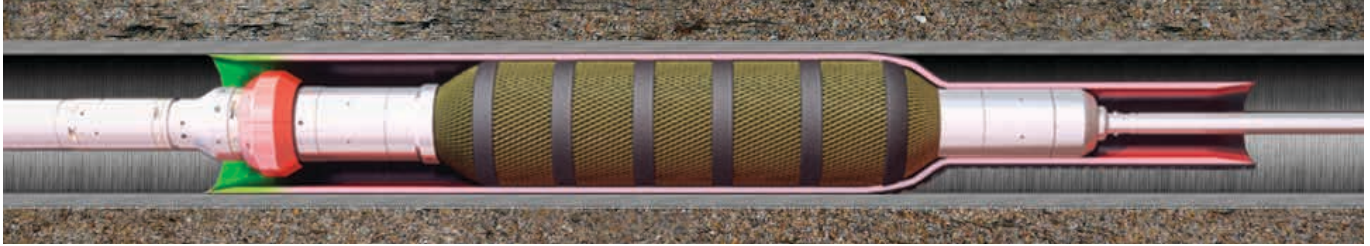


# Pipeline Repair



## APPLICATIONS

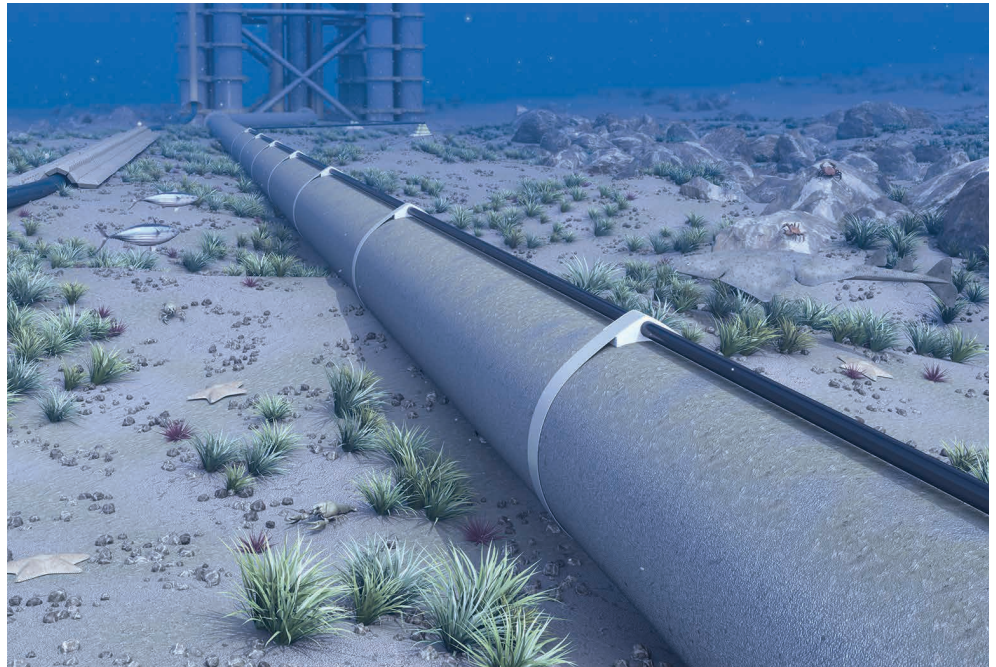
- Onshore Pipelines
- Road Crossings
- Waterway Crossings
- Nearshore Subsea Pipelines
- Buried Subsea Pipelines
- Deepwater Pipelines
- CRA Pipelines

## FEATURES

- Different sizes and lengths available
- Material adapted to the pipeline conditions of operation
- High design temperatures & pressures

## PIPELINE REPAIR

Saltel Industries and Atteris have combined their expertise and technology to develop a range of new pipeline repair methods. This game changing technology is based on internally repairing a pipeline defect using Saltel Industries' proven Expandable Steel Technology, combined with standard deployment techniques and equipment.



In many pipeline defect repair scenarios the internal patch repair technology enables a substantial reduction in repair cost, possibly avoiding the need for a diving support vessel, a hyperbaric weld spread, pipeline handling frames and mass flow excavation equipment.



## Pipeline Repair

www.saltel-industries.com

### BENEFITS

- Simple  
No Excavation or Coating Removal
- Quick  
Fast Deployment and Setting
- Enabling Technology  
Repair of Inaccessible Sections
- Long Life  
Long Life Seals
- Piggable  
Modest ID Restriction
- Adaptable  
Totally Customizable

### COMPLIANCE

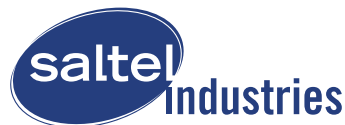
- Qualified to ISO 14310
- DNV-RP-F113 Compatible



The Saltel Expandable Steel Patch is made of a high quality corrosion resistant alloy sleeve covered with elastomers. The Patch can be run on coiled tubing or drill pipe from an access point several kilometers away from the target. At the pipeline's defect location the Patch is expanded using Saltel Industries' high pressure inflatable packer. Packer inflation pushes the patch against the pipe wall to activate the outer seals. Then the setting tools are extracted to leave a pressure resistant inner lining inside the pipeline.



**We deliver a complete package including engineering, design, qualification, compliance, onsite management and installation. Installation is managed by highly trained Saltel engineers ensuring the success of every repair.**



Saltel Industries is the oil & gas service leader in Expandable Steel Technologies worldwide.

In 2004 Saltel Industries developed a high performance «Inflatable Packer» for the oil and gas industry which can withstand HP/HT conditions and frequent pressure cycling. In 2008 Saltel Industries performed its first Patch Deployment in an oil producing well. Since then more than 500 patches have been successfully run in more than 15 countries for well repairs and production enhancement.

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Atteris is a global engineering and design consultancy with expertise in subsea field developments, subsea and onshore pipeline systems, asset and integrity management, life extension, decommissioning, and construction management.

Atteris has a significant track record in developing and applying innovative engineering solutions in the subsea and pipelines industry.

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