INTERNAL CORROSION PROTECTION FOR YOUR PIPELINE
“We continue to push boundaries, driving down the cost of pipeline construction and ownership.”

Liam Macintyre
MANAGING DIRECTOR
**SIMPLE, YET INGENIOUS**

Swagelining® is the world’s leading polymer lining specialist for subsea pipelines. We focus on supporting the oil and gas industry to eliminate internal corrosion, the main cause of pipeline failure.

The catalyst for the development of our technology dates back to the 1980’s when the prospect of excavating and replacing thousands of kilometres of buried and corroded pipelines across the UK arose. Tasked with tackling this problem, two major providers of infrastructure facilities – British Gas and United Utilities – pioneered the Swagelining® technique.

Swagelining® and Die Drawing inventions were patented and later fused together under the Swagelining® banner. These patents were at the forefront of the development of Swagelining® technology as we know it today.

The success of polymer lining as a cost effective alternative to Corrosion Resistant Alloy (CRA) is acknowledged throughout the pipeline industry. It is now preferred by many major international oil companies for subsea water injection lines and in some hydrocarbon applications.

After **protecting pipeline systems worldwide for over a quarter of a century**, the Swagelining® concept remains simple yet ingenious. It’s the evolution of the technology that offers clients new opportunities.
WHAT WE DO

Integrated lining solutions to reduce cost and enhance oil recovery

Internal corrosion is one of the most common causes of premature pipeline failure. We help pipeline owners gain greater long-term certainty by protecting pipeline and riser systems from internal corrosion with integrated polymer lining system solutions.

Corrosion protection of flowlines is becoming a major issue as fluid temperature and pressure increase. Conventional corrosion allowance on carbon steel pipe thickness leads to excessive procurement costs, installation weight and welding thickness resulting in non-economic solutions. Corrosion Resistant Alloys (CRA) – clad or mechanically lined – flowlines require expensive implementation with additional non destructive testing difficulties during installation.

Swagelining® polymer liners are a cost-effective alternative to building pipelines made from corrosion resistant alloys.

Integrated Liner System

Our integrated liner system offers clients a complete solution encompassing all required components for corrosion resistant high pressure pipelines:

- **POLYMER LINING** – provides a 50 year internal corrosion barrier.

- **CONNECTORS** – LinerBridge® joins pipeline stalks together to provide a continuous end to end polymer corrosion barrier

- **INSULINE SLEEVES™** – provides heat protection, should high temperature field joint coatings be specified.

- **END TERMINATIONS** – Flanged or PLET’s installed onshore or offshore using LinerBridge®.
Swagelining® takes overall responsibility for the liner system. Working from the environmental service conditions and the design life for the pipeline or riser, a systematic, formalised design process produces the liner system architecture. The architecture will be suited to the operational service yet facilitate the pipeline construction (and subsea installation) method by enabling a fully welded system where the only flanges present are those specified by the client.
Swagelining® has revolutionised the pipeline industry and energised the global use of polymer technology. Today, our goal is to further extend the application of polymer liners and produce pipelines that are more cost effective to build and operate.

**Swagelining® process**
Swagelining uses cold die drawing to create compressive tight fit liners with residual strain to offer enhanced collapse resistance.

**LinerBridge®**
The world’s first polymer connector system removes the need for costly CRA welding. Suitable for onshore and offshore applications, including reel-lay, S-lay, J-lay and towed pipeline bundles.

**WeldLink®**
Swagelining’s CRA connector for polymer lined pipeline tie-ins and terminations. Suitable for onshore and offshore applications, including reel-lay and towed pipeline bundles.

**LinerVent™**
The benefits of polymer lining for hydrocarbon service are achieved by venting gas build up and preventing liner collapse.

**Capabilities**
- Water injection pipelines
- Dynamic steel catenary risers
- Static riser rehabilitation

**Services**
- Feasibility studies
- Prequalification testing
- Integrated liner installation
- Liner integrity management consulting

**Installation Methods**
Line pipes can be installed via:
- Reel-lay
- S-lay/J-lay
- Towed Pipeline Bundle
Track record

1995
BP Foinaven water injection 10" x 12km and 12" x 4km

2003
53km of BP Schiehallion water injection lines

2008
Statoil Vigdis seawater injection line 16" x 9.5km

2009
ENI M’Boundi seawater injection line 24" x 55km

2015
Tullow Ten water injection line 8" x 19km and 10" x 14km

2016
Wintershall Maria water injection line 12" x 46km

2017
Work begins on BP Mad Dog 2 project

32+ completed projects
LET’S TALK
We look forward to discussing your needs and exploring where we can best support you.

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