

# Enhanced SEAL (E-SEAL)

*In conjunction with Northern Gas Networks, SVI has developed the Enhanced SEAL technique – a safe, remote and effective method of abandoning 100% of T1 or T2 stubs under ‘live’ conditions, including the last transition joint.*

*It is often impractical to disconnect a redundant main directly at the tee piece, where it is often located under a busy junction or is in a sensitive area where disruption caused by the work would be unacceptable.*

*Full abandonment of these short sections of stubs is important if leakage problems are to be avoided in the future. T1 stubs (3-8”) and T2 stubs (9-4”) can both be accommodated with E-SEAL.*

*Using advanced CCTV technology, accurate measurements of the pipes internal diameter can be recorded, including any tapers. This enables the Enhanced SEAL technique to fully abandon stubs at the last transition joint between the stub and the main.*



*A typical Enhanced SEAL operation being conducted without disrupting traffic flow*



*:: Scan code to find out more*



GAS



CONTRACT SERVICES

## Benefits

- **Abandonment carried out remotely from a nearby 'non-sensitive' position, reducing disruption to customers and the public**
- **Safety is significantly improved by sealing the last transition joint between the stub and the main, removing any risk of a gas leak**
- **Size of excavation is kept to a minimum, reducing impact on the environment**
- **Cost savings are gained by reducing reinstatement, traffic management and time on-site**

## Key features

FOAMBAG™ can be positioned from a distance of up to 60m from the parent main.

All equipment is installed through an end-on connection, under live gas conditions.

**Nitrogen Applicator Gun** injects precise quantities of expanding foam into the FOAMBAG™, preventing overfill and passage into the parent main.

**E-SEAL** decommissions 100% of the T1 or T2 stub.

FOAMBAG™ is an SVI patented system.

## Method

1



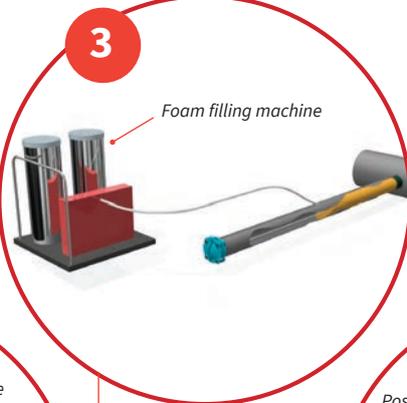
Gland housing

CCTV camera measures ID of main and tapers

SVI operatives install SEAL gland housing (Glandbox™), carry out camera survey of stub and connection to parent main, establishing ideal location for FOAMBAG™. If survey reveals rust, stub is cleaned with brush tool

Once FOAMBAG™ and umbilical line are prepared, FOAMBAG™ is precisely filled with expanding foam from a nitrogen powered applicator gun

3

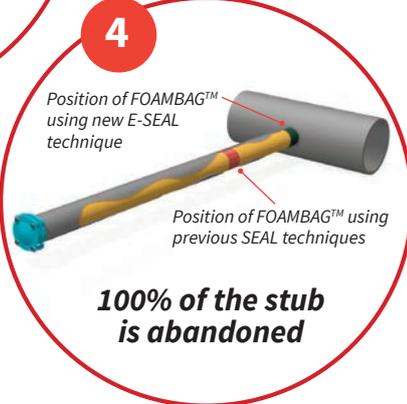


Foam filling machine

The stub is completely filled with foam – it is then capped off using traditional methods.

Applicator gun forces a 'follower' through umbilical tube

4



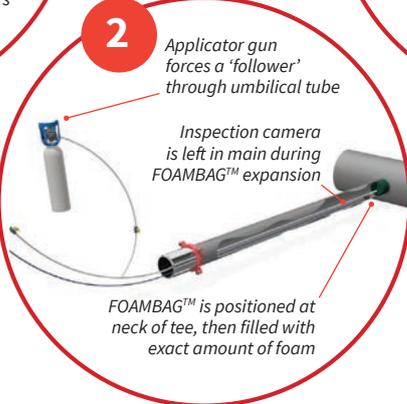
Position of FOAMBAG™ using new E-SEAL technique

Position of FOAMBAG™ using previous SEAL techniques

100% of the stub is abandoned

FOAMBAG™ is cured after 30-45 minutes. The stub can then be back filled with foam through an umbilical line.

2



Inspection camera is left in main during FOAMBAG™ expansion

FOAMBAG™ is positioned at neck of tee, then filled with exact amount of foam

## About Steve Vick International

**We are experts in innovative engineering for trenchless renovation and decommissioning of pipes worldwide.**

Since our foundation in 1981, we have been dedicated to delivering cost-saving solutions for damaged, redundant or outdated underground pipe work. We are at the forefront in developing products and techniques across gas, water, nuclear and contract service sectors on a worldwide basis.

We are proud of our reputation for innovative product development, strong technical support and after sales care.

For more information on any of the products and services featured here, please contact: [info@stevevick.com](mailto:info@stevevick.com)

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