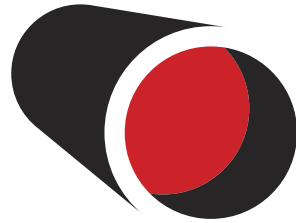


**STEVE
VICK**
INTERNATIONAL



PRODUCTS FOR THE TRENCHLESS REPAIR,
RENOVATION & DECOMMISSIONING OF
UNDERGROUND PIPES WORLDWIDE

INNOVATION, EXPERTISE, SERVICE

Since its foundation in 1981, Steve Vick International has been at the leading edge of trenchless techniques for the repair, renovation and decommissioning of pipes. The company's principal focus is on the gas industry although we supply products and services to all the utilities on a worldwide basis.

In the UK we are major suppliers to the gas distribution networks and many of our techniques have become accepted practice in the industry. With a massive 30-year programme under way to renew the UK's ageing gas distribution network, we are constantly seeking to provide our customers with renewal methods which will minimise their costs and maximising their production.

As the dual pressures of cost and environmental implications of open trenching increase, pipe insertion – a method of sliplining a cast iron pipe with a new polyethylene pipe – is becoming the preferred method of meeting renewal targets. Our resin foam sealant products and associated equipment are key to many of the insertion methods used.

Quality and innovation

We are very conscious of delivering a quality product to our customers. To this end we ensure that our people are highly motivated and well trained to recognised industry standards.

One of the great strengths of Steve Vick International, which has ensured its success over the last two decades, has been its ability to innovate and to transform development ideas into finished marketable products. We work in close collaboration with gas distribution companies in developing, testing and making available new or improved techniques for cost-effective pipe repair and maintenance.



Live insertion of a gas main in the United States



Steve Vick, Managing Director and Director Crock Harrison at the Bath Headquarters

After sales service

Obviously the safe and efficient use of our products is a paramount consideration and we are pleased to offer our customers a range of training options to suit their needs.

We also pride ourselves on our comprehensive after sales service with dedicated staff available to offer technical back-up on or off site.



Fabrication of FOAMBAGS™ and ENDSEALS™ at our Bath facility

Products and services

At Steve Vick International we are dedicated to supplying the utilities industry with the most cost effective trenchless pipe repair, renovation and decommissioning techniques available. We offer our products in kit form for customers to use themselves as well as providing a contract service for more specialised operations.

Complementing this comprehensive range, we design and manufacture a series of robust pipe handling equipment including pipe pushing machines and pipe coil trailers.



A training session for customer personnel

Company activities

- Live gas mains and service insertion techniques
- Live gas service isolation
- Products and techniques for pipe flowstopping and abandonment
- Specialist pipe replacement techniques
- Special contract services including pipe decommissioning
- Pipe, duct and cable handling equipment



Foam kits being packed for despatch

GAS PIPE REPLACEMENT TECHNIQUES

Live Gas Mains Insertion

Steve Vick International is a world leader in developing techniques for live gas mains insertion. The company is the international licensee of Gaz de France for the LYONTECH™ disposable gland box developed jointly by the two organisations.

Live Mains Insertion is normal insertion of a low pressure cast iron main with PE pipe but under live conditions so that customers' supplies are not interrupted until individual services are transferred when operationally convenient. We offer a complete range of hardware and foam sealant kits to tackle any insertion project from 3" diameter upwards.

- Cost saving of up to 14% compared with dead insertion
- Maximum operational flexibility
- Minimum time off gas for customers – one re-light only required
- Minimum excavation at any one time
- Minimum risk of interference damage
- Minimum impact on the environment
- Minimum capital equipment cost
- Products meet GIS/E58 and GIS/LC14 Specifications

Live Service Insertion

Our live gas service insertion technique, using our patented FOAMPACK™ product, allows companies to renew gas service pipes without interrupting the mains supply and without excavating in the road or footpath.

The Live Service Insertion technique has been designed for steel services up to 2" diameter operating at low pressure. An excavation is usually made at a distance of 2 meters from the building and the service is cut out. Through a combination of valved gland assemblies and using a manual pushing machine, the replacement PE is inserted into the service to the point where it meets the parent main.



Live Mains Insertion showing the LYONTECH™ disposable gland box and pneumatic pipe pushing machine



Resin foam is injected into the old main to seal the annular space



The foam expands to seal the space between the PE and the old main allowing the cast iron to be cut out for service transfer

Expanding foam is then injected into the annular space and is prevented from entering the main by a special nose cone on the lead edge of the PE. A Mini End Seal is then fitted at the insertion point and filled with foam. If required, no-gas cut off may be carried out prior to insertion.

- Substantial cost-saving as a repair or cut-off method
- No need to excavate in the road or footpath; avoids risk of personnel working in the highway
- Reinstatement costs significantly reduced
- Annular space sealed with expanding resin foam
- Quick and easy to use
- Products meet GIS/LC14 Specification

Live Service Isolation

Live Gas Service Isolation was developed at the request of the gas industry for a safe alternative to the traditional method of cutting service pipes in live gas conditions.

The service is accessed via a small excavation and, using the Steve Vick International Isolator Clamp, the pipe is drilled in no-gas conditions and a temporary stopper is inserted. The operation takes only a few minutes and the service can then be live inserted or capped in the case of abandonment.

The key component of the equipment developed for the technique is the re-usable, under pressure Isolator Clamp which is attached to the service. This has a perpendicular valve for drilling through the pipe and an angled valve for inserting a temporary rubber flow stopper through the aperture. Both operations are carried out under no-gas conditions.

Dead Insertion

For inserting dead services, our FOAMPACK™ kits are used as a convenient annular sealant for injecting from the service head adaptor to fill the prescribed length of the old service.

Alternatively, our Grout Packs are especially formulated for filling the annulus between the excavation in the garden and the meter on dead services inserted with either PE or Serviflex™.

ENDSEAL™ kits and FOAMCAPS™ are used in dead mains insertion.



Live gas service insertion allows services to be renewed without excavating in the roadway



This tool solves the problem of cutting steel services previously inserted with PE



The Live Service Isolation technique is a safe alternative to the traditional method of cutting gas service pipes in live conditions



A typical Live Service Isolation kit comprising Isolation Clamps, under-pressure drill and all components required to carry out the isolation technique

GAS FLOW STOPPING TECHNIQUES

Steve Vick International's FOAMBAG™ technique has become a gas industry standard method of flowstopping sections of gas mains to be abandoned. Simple and inexpensive compared with conventional systems, we supply the kits and equipment for utilities to carry out their own operations on gas mains and services up to 10" diameter running at pressures up to 75 mbar. For larger diameters and medium pressures, we offer a contract service.

FOAMBAG™ is suitable for all types of material including cast iron, ductile iron, steel, PE and asbestos. It can be used on vertical pipework, tapering sections and in all kinds of unusual or difficult situations and has many uses in the water, waste water and civil engineering sectors.

The FOAMBAG™ system has been in use in the UK for over 25 years and meets the UK gas industry standard for ¾" to 36". It has been adapted for use in various other specialised techniques such as the remote abandonment of gas main stub ends.

The FOAMSTOP™ technique provides a 'no-gas' method of service cut-off for ¾" to 2" diameter pipes running at low pressure

- Products meet GIS/E59 Specification

Live Service and Live Riser Transfer

Live Service Transfer allows a gas service to be partly relaid and/or transferred to a new main without disrupting the customer's gas supply. It is particularly useful in replacing services to multi-occupancy properties and those with uninterrupted supplies.

Live Riser Transfer is an enhancement of the system. A Special Contract Service, it enables the operator to replace an existing property entry point or modify internal pipework under live conditions.

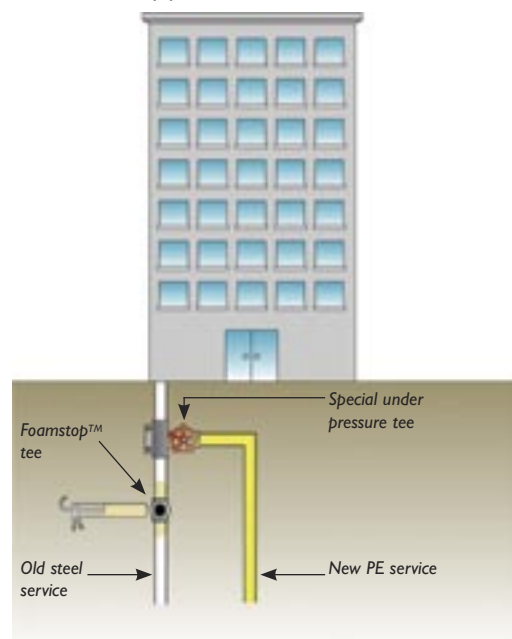
- Products meet GIS/SER/6 Specification



FOAMBAG™ holds the resin foam in place whilst it expands



At full expansion, some of the foam seeps through the semi-porous fabric of the FOAMBAG™ to adhere to the wall of the pipe



Live Service Transfer allows a service to be partly relaid or transferred to a new main without disrupting customers' supply

SPECIAL CONTRACT SERVICES

Providing the gas industry with Special Contract Services has been an integral part of the company's development. Our highly experienced teams, qualified to GD Level 5 or NVQ Level 2 in Gas Network Operations offer a 'supply and execute' service throughout the UK and overseas, carrying out a wide range of specialist operations.

With teams based in the North and South of England we are able to respond quickly to customers' needs. For emergency repairs, we offer a rapid call-out service 24 hours a day, 7 days a week within mainland UK.

Overseas, our teams have carried out projects in Brazil, the USA and throughout mainland Europe.

Whilst our major emphasis is on the flow stopping and abandonment of gas mains and services using expanding polyurethane resin foams, we also work within the water and civil engineering sectors, sealing a variety of pipes and unwanted voids and in nuclear decommissioning.

Briefly, our Special Contracts Services include:

- Foaming off large diameter low pressure mains
- Flow stopping medium pressure gas mains and services
- 'Live' abandonment of gas main 'stub ends'
- Pipe cutting operations
- Sealing off decommissioned pipes
- Sealing off a wide variety of unwanted voids

Flowstopping gas mains & services

Low Pressure

Our Contract Services teams carry out low pressure flowstopping work on gas mains from 12" to 36". The FOAMBAG™ system offers considerable savings over conventional flow stopping operations since it requires much smaller excavations resulting in significantly lower reinstatement costs. In many cases, foaming off can provide the only means of flow stopping a main without the need for extensive additional excavation.

- Process meets GIS/E59 Specification



Fitting an ENDSEAL™ on a Live Inserted Main



The lightweight Mini Purge Ejector purges gas from metallic and PE gas mains during pipe abandonment. At just 1.2m high (excluding extension tubes) it is much easier to handle than traditional purge ejectors.

Medium Pressure

Our experienced personnel carry out all foam-offs of medium pressure gas services and mains from ¾" up to 8" at pressures up to 2 bar and above this at reduced pressures. We are able to deal with tapering and vertical pipes, bends and non-standard sizes.

Abandoning gas main 'stub ends'

We offer a specialist contract service for the final abandonment of live short stub ends of gas mains (typically 2 to 20 metres in length) using the Stub End Abandonment technique. The technique was jointly developed by Steve Vick International and Transco as a means of avoiding unacceptable disruption caused by excavation, for example at busy road junctions.

Using our proven resin foam technology in conjunction with CCTV equipment, it is possible to excavate down to the stub end at a non-sensitive location. It can then be rendered gas free from the point where it meets the parent main to the cap end previously fitted, preventing further leakage problems.

- Process meets GIS/TE/EI.9 Specification

Live Riser Transfer

This technique offers a solution to the problem of replacing services to high rise apartment blocks. It allows a gas riser within a building to be partly renewed or transferred to a new main without first decommissioning it. As there is no disruption to consumers' supplies, Live Riser Transfer avoids the need to test, purge and relight each dwelling in a block of flats.

- Products meet GIS/SER/6 Specification

Pipe cutting

For customers wishing to abandon or cap off cast iron, ductile iron or steel pipes, we offer a pipe cutting service. This is carried out with or without flow stopping operations. We are also able to offer a window cutting service in order to gain access to a previously inserted carrier pipe.

CCTV Camera Surveys

Our teams carry out CCTV camera surveys of live or dead gas mains, typically to locate branch connections and plugs prior to the insertion of new PE pipes. Customers find this service particularly beneficial where a pipe replacement operation is taking place at a busy road junction. Knowing the internal geography of the main avoids unnecessary excavation – a major cost concern.

Further details on our Special Contract Services are given in a separate brochure



A member of Steve Vick International's Special Contract Services team carrying out a low stopping operation on a large diameter live gas main in 'no gas' conditions



For large diameter 'foam offs', the resin and hardener are mixed and injected using a pneumatically operated machine



Cutting a 24" cast iron main

PIPE SEALING & DECOMMISSIONING

The company supplies a range of products to permanently seal off decommissioned pipes and voids found throughout the public utilities, civil engineering and nuclear sectors. We provide easy-to-use kits, containing either resin foam or cementitious grout depending on the application, for customers to carry out their own operations. For large volume fills, our Special Contracts Service is available.

Decommissioning

We have considerable experience working with customers in the nuclear industry in permanently sealing off decommissioned pipework. In most situations, our well proven FOAMBAG™ system is used to provide plugs at strategic positions to prevent the unwanted flow of the fill material. In this way, the ingress or egress of potentially hazardous material is prevented.

Sealing off drain and sewer laterals

Our DRAINBLOCK™ BAG allows disused drain or sewer laterals to be sealed off remotely at the point where they meet the parent main. The double-skinned bag is positioned using a CCTV camera. Inside the inner bag is a sealed sachet containing a two-part resin foam which expands, forcing the foam into the outer bag. At full expansion, some of the foam seeps through the outer bag to adhere to the pipe wall to form a permanent plug. Once the bag is cured the entire abandoned pipe can be filled with foam or grout if required.

- Prevents ingress/egress of water
- Stops the passage of odour or airborne particles
- Discourages the movement of rats or other vermin
- WRc Approved

Duct sealing

For preventing the ingress of water into pumping stations, control rooms, plant rooms and chambers, we offer a duct sealing service using the FOAMBAG™ system combined with specially formulated resin foam.



Sealing off underground pipes at a power station



Steve Vick International has considerable experience working with customers in the nuclear power industry



The DRAINBLOCK™ BAG allows disused drain or sewer laterals to be sealed off remotely at the point where they meet the parent main

PIPE HANDLING EQUIPMENT

Since the introduction of coiled PE pipe in the 1980s, Steve Vick International has been in the vanguard of developing equipment for its safe, easy handling, dispensing and transport. We are the acknowledged UK specialist trailer producer having sold well over 2000 units to utility companies and their contractors around the world.

Pipe coil trailers

In designing our coil trailers, safety considerations are paramount and our equipment complies fully with the industry's stringent standards. The PE pipe, which conserves a great deal of stored energy when it is coiled, is retained within a steel cage whilst the two ends are secured. A rotating central drum and rollers ensure effortless dispensing.

Our range is designed to accommodate the vast majority of standard coil sizes but trailers can be produced to special order.

- The leading range of PE coil trailers in the UK
- Designed to meet stringent safety standards
- Simple design and robust fabrication ensures long life and low maintenance
- Accommodates coils of PE up to 180mm diameter

Pipe pushing machines

The company has developed a range of pushing machines suitable for pipe diameters from 16mm (½") to 1000mm (40"). For the very smallest sizes the machines are either manually or pneumatically operated. For larger sizes they can be either pneumatically or, for most applications involving diameters over 125mm (5"), hydraulically powered.

The machines are used for a wide variety of applications including all types of insertion (sliplining) of new pipes into old and the installation or removal of cable in ducting.

Use of a pipe pushing machine can save considerable time in comparison with winches and avoids the risk of exceeding permissible traction forces on the PE.

- Each machine adjusts to a range of diameters using shell inserts
- Avoids pipe or cable stretching
- Fast set up time
- No winch wire safety problems
- Only one open excavation needed when inserting
- Long lengths of insertion possible



A central rotating drum on our trailers aids smooth dispensing of the PE



The 125Plus pneumatic pipe pushing machine handles pipe from 40mm to 125mm



The 630 hydraulic pipe pushing machine

PRODUCTS & SERVICES – SUMMARY

GAS INDUSTRY

For mains replacement:

Gland boxes for live mains insertion
Live heads for inserted PE
Insertion Seal foam kits
Live/dead End Seal foam kits
Applicator guns
Test ends
Reversible standpipes

For mains abandonment:

FOAMCAP™ kits*
Stub End Abandonment Live*
Grout filling*
Mini Purge Ejector

For flowstopping:

FOAMBAG™ foam kits*
FOAMSTOP™ foam kits

For service operations:

FOAMPACK™ foam kits
Live Service Isolation Kits
Applicator guns
Pressure test tee
Service (manual) pushing machines
Nose cones
Mini End Seals
Hardware tool kits
Removal tool for live inserted services

For live service/riser transfer:

Service Transfer Tee
Under pressure drill
FOAMSTOP™ foam kits
FOAMSTOP™ tee
Special Contract Service

For sealing screwed joints:

Polyfill™ sealant and equipment

WATER INDUSTRY

For pipe abandonment:

Grout filling*
DRAINBLOCK BAG™
Duct sealing:
FOAMBAG™

FOR ALL UTILITIES PLUS CIVIL ENGINEERING, LANDSCAPING & DRAINAGE SECTORS

For insertion/sliplining:

Pipe pushing machines – for sale or hire
Pipe coil trailers – for sale or hire

For duct & sleeve sealing:

FOAMBAG™

Filling unwanted voids:

Grout filling*

NUCLEAR INDUSTRY

Pipe decommissioning:

FOAMBAG™
Grout filling*

*SPECIAL CONTRACT SERVICE AVAILABLE

This brochure is intended to give an overview of the company's activities. For detailed product information, please call Customer Services on +44 (0)1225 480488, Email info@stevevick.com or visit our website at www.stevevick.com



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