

SEALBACK® 1.5



GAS



WATER



NUCLEAR



CONTRACT SERVICES

A Contract Service technique for live mains replacement in traffic sensitive locations

SEALBACK® is a safe and efficient gas controlled 'live' mains replacement method in traffic sensitive locations or where access onto the main is restricted. Replacement is undertaken from a remote location, usually from a side road, into the main carriageway to the point where the main intersects its parent pipeline (typically 3-13 metres away).

SEALBACK® 1.5 is similar to the original technique, approved in 2004, but uses a nose cone benefitting from advancements in manufacturing that denotes the .5. It is currently available for inserting 75mm/SDR11 PE into a 4" main and 125mm/SDR17.6 PE into a 6" main.

The outer part of the nose cone is used to decommission the main as the new PE pipe is inserted to its required location.

The primary gas seal is achieved by the introduction of a calculated quantity of FOAMPACK™, a PU foam which fills the annular space giving a permanent seal.

The new PE pipe is commissioned by withdrawing the inner section of the nose cone.

Note: The feed from the parent main will be lost during installation, but recommissioned on completion; typical off-gas periods are only two to three hours.

PRINCIPLE OF OPERATION

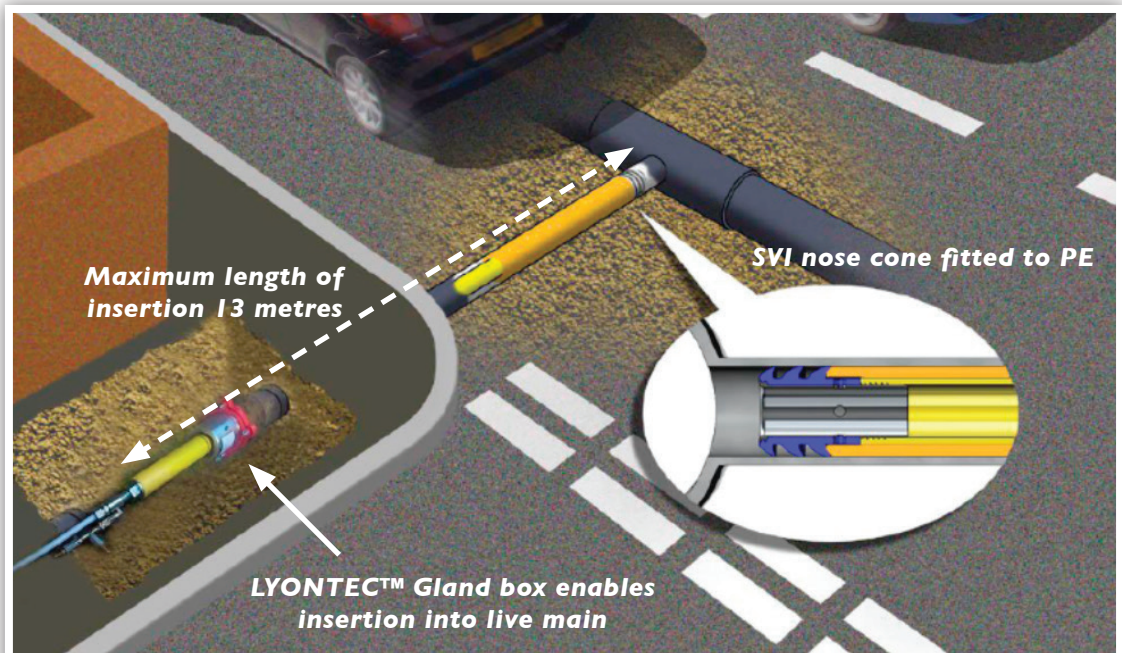
The principle of the operation is to insert a new polyethylene (PE) pipe into a live, low pressure iron main.

A two-part nose cone is installed onto the leading end of the PE and the pipe is pushed into the live main through a SVI LYONTEC™ gland box which enables a 'no gas' controlled operation.

BENEFITS

Approved to UK gas industry standards for use up to 75mbar operating pressure.

- Avoids excavation in the highway – works may be carried out from a side road
- Significantly reduces use of traffic management systems and associated costs
- Reduces need to work in higher risk locations
- Minimises excavation and reinstatement



PE pipe is inserted from a remote location (3m-13m) into the live metallic main to be renewed. A SEALBACK™ nose cone is inserted into the leading end of the PE pipe which in turn is inserted into the old cast iron main through a LYONTEC™ gland box.

Steve Vick International is a major supplier to all the UK gas distribution networks and is a global leader in developing techniques for the live insertion of gas mains. Literally thousands of miles of gas mains around the world have been inserted live since the technique was introduced in the 1980s.

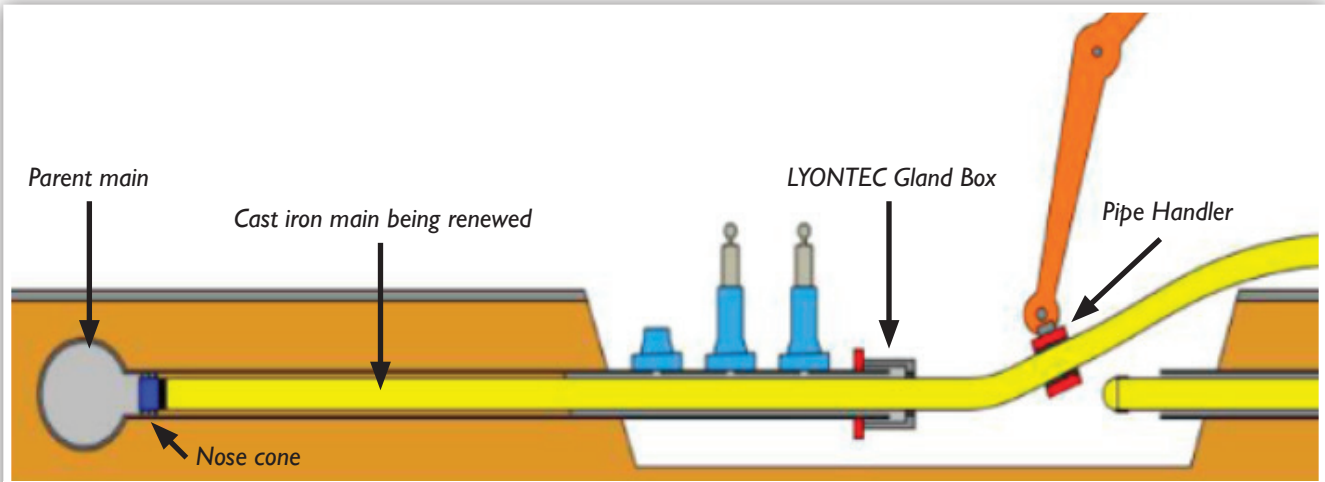


Diagram shows a typical set up for a SEALBACK® 1.5 project. The excavation would be in a side road and the parent main in the carriageway. Typical insertion distance is 5-13 metres.



SVI SEALBACK® 1.5 nose cone for inserting 75mm/SDR11 PE into a 4" cast iron main



SVI nose cone for inserting 125mm/SDR17.6 PE into a 6" cast iron main



The SVI LYONTEC™ gland box allows insertion of the new PE pipe into the live main in gas controlled conditions



SVI'S range of pipe handling equipment makes pipe insertion safer, faster and more efficient

Steve Vick International Ltd. Treenwood Industrial Estate, Bradford on Avon, Wiltshire, BA15 2AU

info@stevevick.com +44 (0) 1225 864 864 stevevick.com

