

Gas Service Insertion Toolkit GAS SOLUTIONS

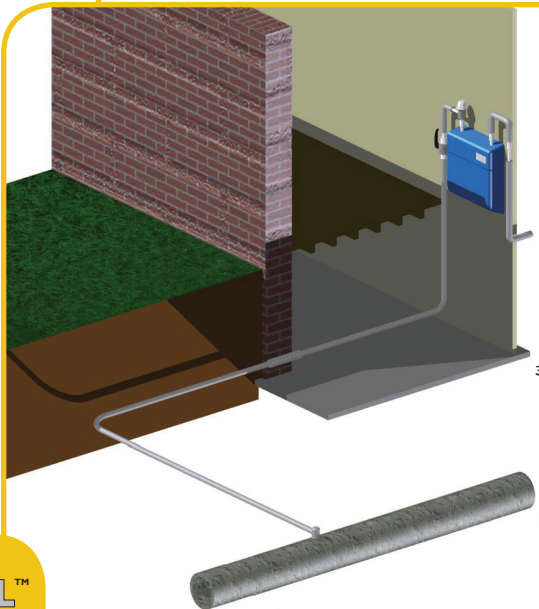
For 3/4" Metallic Services using 17.5mm PE & FULLSEAL™ annular sealant

This toolkit enables an existing 3/4" metallic gas service to be relined with 17.5mm PE from a small excavation outside the property back to the existing meter, thus avoiding the need to relay the service or re-site the meter.

The toolkit has been developed by a PE manufacturer, in conjunction with Steve Vick International, to ensure that the 17.5mm service pipe is installed correctly whilst minimising any installation damage to the

PE. Insertion of the new PE pipe is via a push/guide technique using the dedicated components contained within the toolkit in order to minimise undue stress on the PE.

The 17.5mm PE is supplied by the manufacturer in 8.4 metres lengths and comes with an insertion head and tensioning cable. Also supplied is a metallic service head adapter with two sealant injection points and a 17.5/32mm electro fusion reducer for the garden connection.



17.5mm PE pipe in long (Swept) bend



17.5mm PE pipe in short (knuckle) bend

FULLSEAL™

Annular Sealant

- Low-cost
- Premixed - no preparation
- Inert - no harmful chemicals
- Environmentally friendly
- Odourless
- Spills can be easily cleaned
- Non - curing properties
- Part used cartridges can be reused

APPLICATION

The technique for inserting existing 3/4" metallic services with 17.5mm PE is suitable for low pressure services that have no more than two bends. The maximum service length is 8.4 metres and the termination of the metallic service pipe in the garden can be carried out at any required point between the property and the main, subject to network specification (increasing the service pipe length will result in a greater pressure loss between the main and the meter).

As with all newly inserted service pipes, the annular gap needs to be filled in accordance with network/GISLC I4 specification. Suitable for PE and Serviflex, 17.5mm FULLSEAL™ sealant is injected via the service head adapter and comes premixed, removing the need for any preparation on-site.

17.5mm FULLSEAL™

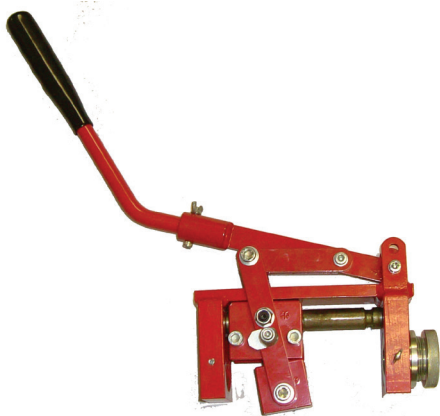
FULLSEAL™ is a thixotropic sealant developed by Steve Vick International to fill the gap between newly inserted plastic pipes and the existing steel service. It is currently the most cost effective sealant on the market and is extremely user friendly being completely inert and supplied in ready to use cartridges. Due to its non curing capabilities, the sealant will stabilize in the annulus without curing, allowing the service to be removed if required at a later date.

BENEFITS

- Being able to insert 17.5mm PE directly into an old 1/4" metallic service significantly increases the supply capacity compared with the traditional 16mm PE.
- Pipe manufacturers designed the new 17.5mm PE specifically to offer adequate clearance for insertion through a 1/4" metallic service whilst offering the largest possible internal bore for gas flow characteristics.
- Utilities who have used the technique found that they were able to achieve service renewals in just 30-40 minutes per property which compares very favourably with relaying the service or re-siting the meter.

TOOLKIT DESCRIPTION

Toolkits may be customised to comply with service layers' existing tooling, but a complete initial package would include the following:



Pipe pushing machine with 17.5mm shells



De-burring tools - metallic for PE pipe; plastic for steel pipe



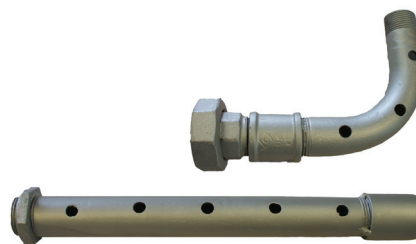
Guide spring complete with probe end and spring retention case



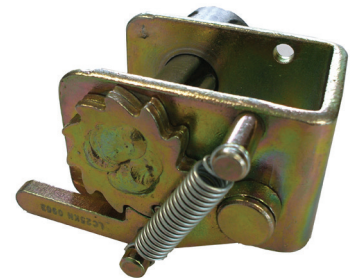
Service union adapter



3/4" Primofit



Extension/site tubes



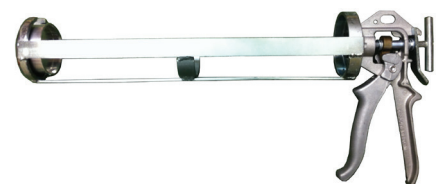
Tensioning unit for guiding technique



17.5mm FULLSEAL™ annular sealant - sufficient for up to 8.4 metres



1" x 3/4" Reducing Bush



17.5mm FULLSEAL™ Applicator Gun

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