



RAPID SERVICE ISOLATOR

Operating Instructions

This new technique developed by Steve Vick International allows an operative to isolate a metallic low pressure service under 'no gas' conditions to enable the service to be safely cut and subsequently dead inserted with a new PE pipe up to 75 mbar with diameters from 3/4" to 1 1/4",

The procedure allows the service to be cut as close to the main as possible to minimize the size of the excavation required.

Method Overview

A pair of specially modified Mole Grip Clamp with a built-in gland and rubber seal is attached to the service at the point of isolation. Using an air operated drill, a 5mm hole is drilled into the service through the gland. An inert sealant is then injected into the service, and once tested for a gas-tight seal, the service can immediately be cut through in 'no gas' conditions *without the need for breathing apparatus*. The cut service can then be removed using current relevant operational procedures to allow a new service tee to be installed.

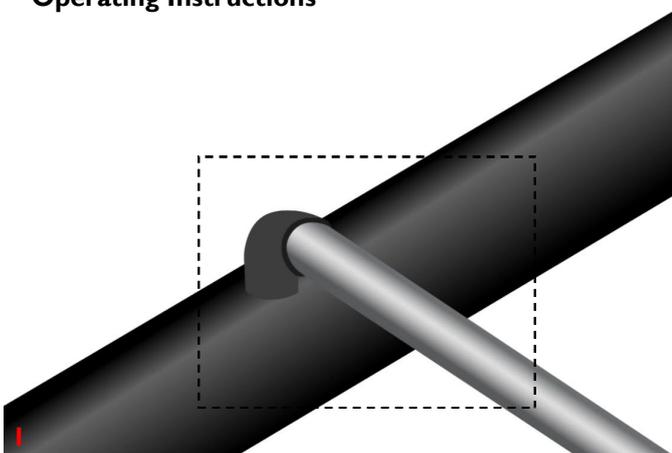
Kit Description

The contents below are included in the kit which is supplied in a fabric carrier. The sealant* is purchased separately and comes in sealed cartridges marked with quantities required for each service diameter.

The Air Drill** can be purchased from Steve Vick International, but likely that most operatives will already own a unit issued as part of standard tooling.



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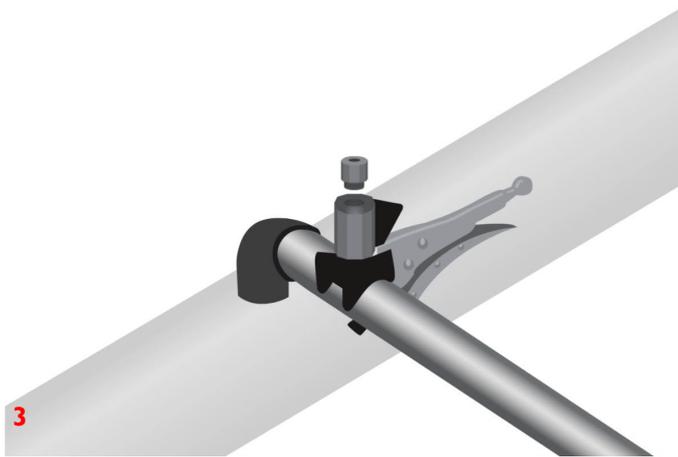


Clean the service pipe where the Rapid Service Isolator Clamp will be located. Ensure the condition of the rubber gasket on the Mole Grip Clamp is clean and secure.

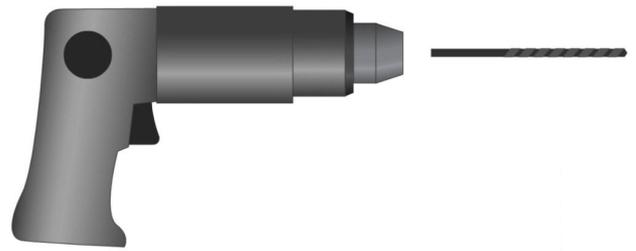


Prepare the Mole Grip Clamp by adjusting the feed screw so that it will apply a strong gripping force to the service. Attach the Mole Grip Clamp to the service at the point of isolation as shown and apply a light force to check it is securely attached.

Rapid Service Isolator—Operating Instructions continued



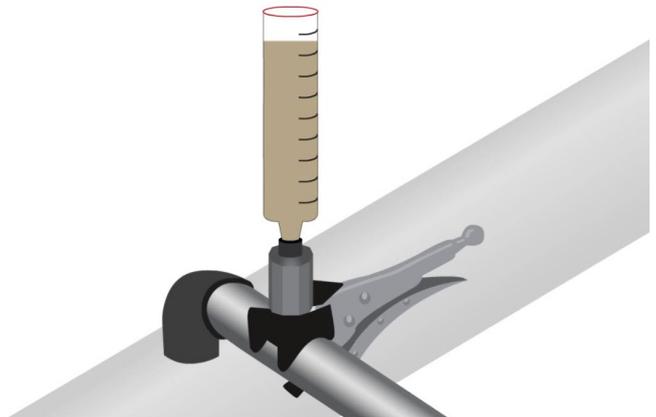
3 Screw the drill bit gland and nipple to the Mole Grip Gland which ensures a gas free drilling operation.



4 Insert drill bit into pneumatic drill and lock into chuck. Complete visual check ensuring fixed length of drill bit is not longer than clamp assembly to avoid fouling the far side of the service pipe.



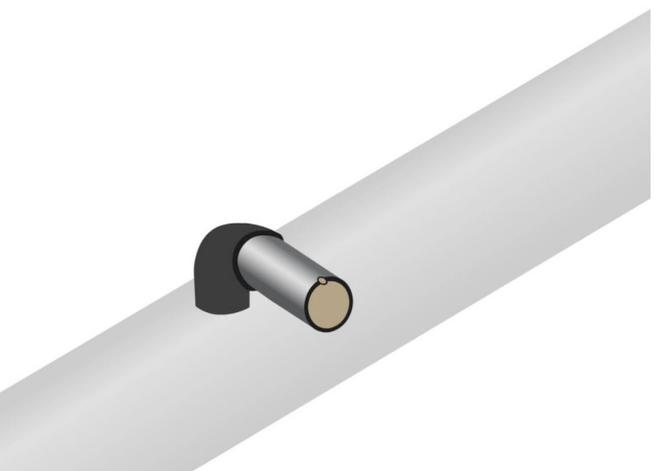
5 With the valve OPEN confirm engagement with the top of the service pipe. Commence drilling operation and carefully drill the service pipe down no more than the mark on the drill bit. Retract the drill so that the valve can be CLOSED then fully remove the drill.



6 Remove Drill Bit Gland and Nipple and replace with the Barrel Nipple on the top of the Mole Grip Clamp. Remove protective red cap from the sealant cartridge and screw into the Barrel Nipple.



7 Slide the Applicator Gun over the cartridge and OPEN the valve. Inject the sealant using the volume stated on the cartridge. Remove Rapid Service Isolator drilling equipment. Purge service at the ECV or by drilling a secondary hole approximately 8"/200mm downstream toward the property. Once purged carry out a let by test to confirm a seal.



8 If a back feed is confirmed refer to line manager. sealed cut the service pipe using a hacksaw in the service trench towards the property. Then carry out a secondary cut directly on the point of injection and remove the section of service pipe. The existing tee can now be replaced using relevant operational procedures utilising breathing apparatus.