

**DOOCEY**<sup>®</sup>

Pipeline Resilience



Working on live pipelines to  
ensure continuous supply

A DIVISION OF

**DOOCEY**<sup>®</sup> GROUP

- Line Stopping
- Under Pressure Drilling / Hot Tapping
- Under Pressure WATH Uni-Valve
- Pipe Cutting / Cold Cutting
- Bespoke Pipework & Fittings

## Pipeline Resilience

Our Pipeline Resilience division was created to enhance the groups' existing offer to the water industry. Knowing that having the right techniques, experienced workforce and the specialist equipment is essential for pipeline projects, especially where customer interruption can be avoided.

Our experienced technicians have the experience and capability to design plan and install all aspects of this specialist division. The ability to perform various pipeline solutions in-house, can often simplify the biggest challenge saving vast time and money for our clients. Continued investment enables procurement of the latest specialist tools, equipment and bespoke fittings to deliver the best possible outcome. Backed up by our other group divisions this enables a unrivalled full turn-key package.

## Line Stopping

Our technical engineers are specialists in this process. It is used to isolate a section of pressurised pipeline without causing any interruption to the supply. The pipeline can be operated under normal conditions when used in combination with a bypass. This method allows for any maintenance, repairs, or modifications to be carried out to the pipeline without service disruption and in a cost-effective way. We have the capabilities to carry out line stop and bypass operations on pipelines from 3" to 48" diameter with working pressures up to 20 bar.

### Advantages associated with line stopping and bypassing:

- No need for complete shut-down of the system
- No drain down of the system
- Suitable for almost all types of pipe
- Services maintained with little or no disruption
- No leakage or loss of flow
- Ideal for isolating sections of ring mains.





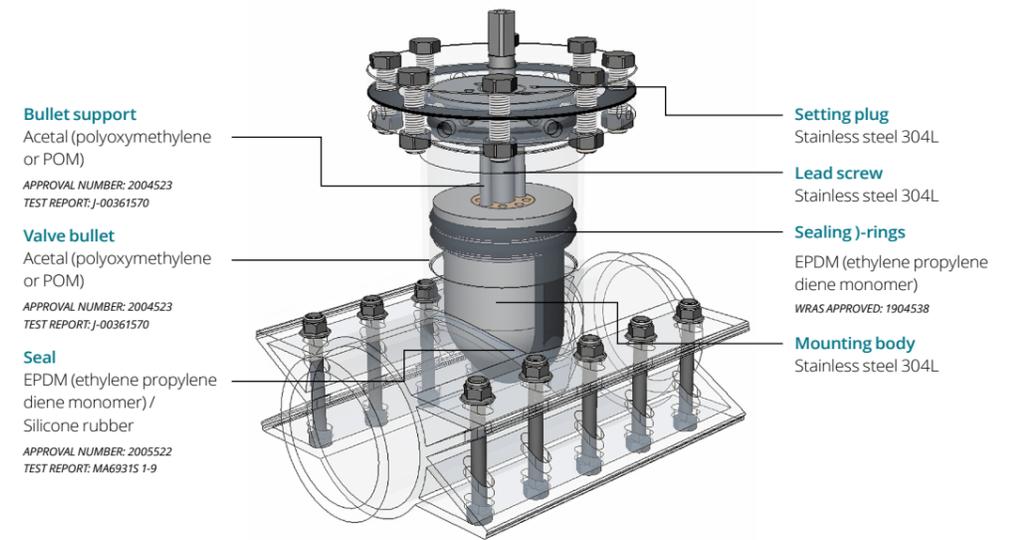
## Under Pressure Drilling / Hot Tapping

This method provides a connection onto a pressurised main without any interruption to supply. It avoids any requirement to shut down the system. Our technical engineers use the latest coupon retention technology available. When a hot tap is performed, the wired pilot drill retains the coupon for recovery when the process is complete. We have the capabilities to execute drillings up to 48" diameter core size on any host size and material pipeline.

The installation is completed without leakage or loss of supply. This procedure can be carried out on most pipelines including steel, cast iron, ductile iron, asbestos cement, PVC or MDPE/HDPE.

### Advantages associated with under pressure drilling:

- An ideal option when shut-down is not practical
- No major disruptions to pressurised systems
- No leakage or loss of flow
- Risk of contamination in the pipes or tanks being reduced
- Reduced risk of discolouration / contamination incidents
- Can be done on almost all pipe types
- Eliminates down time when the process is complete.



**Bullet support**  
Acetal (polyoxymethylene or POM)  
APPROVAL NUMBER: 2004523  
TEST REPORT: J-00361570

**Valve bullet**  
Acetal (polyoxymethylene or POM)  
APPROVAL NUMBER: 2004523  
TEST REPORT: J-00361570

**Seal**  
EPDM (ethylene propylene diene monomer) / Silicone rubber  
APPROVAL NUMBER: 2005522  
TEST REPORT: MA6931S 1-9

**Setting plug**  
Stainless steel 304L

**Lead screw**  
Stainless steel 304L

**Sealing )-rings**  
EPDM (ethylene propylene diene monomer)  
WRAS APPROVED: 1904538

**Mounting body**  
Stainless steel 304L

## Under Pressure WATH Uni-Valve

Our technical engineers have the knowledge, experience and machinery to carry out this specialist installation, using the best quality fittings in the industry.

The innovative, permanent under pressure gate valve offers an alternative option to line stopping. Typically, they are installed much quicker and only requires a single excavation. Mains sizes available from 3" to 12" including non-standard 5", 7" and 9". The seal has been engineered to withstand up to 24 bar of pressure whilst in operation.

The WATH Uni-Valve is compatible for use with the following pipe types: steel, cast iron, ductile iron, asbestos cement, PVC or MDPE/HDPE.

### Advantages associated with the WATH Uni-Valve:

- Faster and more convenient installation than line stop method
- Like-for-like replacement of current gate valves, clockwise/anti-clockwise and with the same number of turns as standard valves
- One excavation eliminating expensive multiple excavations
- No need for complete shut-down of system
- Can be installed in restricted spaces in close proximity to existing services
- No drain down of the system required
- Suitable for almost all types of pipe
- A permanent gate valve leaving a fixed capital asset on the network
- Services maintained with little or no disruption
- A higher successful percentage of installations in comparison to other products on the market.





## Pipe Cutting / Cold Cutting

Our technical engineers also have the capabilities to carry out controlled cold cutting of pipelines from 4" through to 60" on cast iron, ductile iron and asbestos concrete pipelines using hydraulic grit saw / keel cutting up to 12" and split frame/ clamshell technology for cuts from 14" to 60".

### Core advantages:

- Extremely safe without generating spark, flame, or excessive heat
- No airborne contamination
- No chance of explosion
- Efficient method for most pipe material types
- Eliminates the need for grinding
- Minimal clearance required around pipework.

## Bespoke Pipework & Fittings

We provide the knowledge, care and equipment to fabricate and install an array of pipework & fittings, catered to your needs.

- Split tees - Carbon & Stainless steel, welded / screwed
- Combined valve tee
- Dismantling joints
- Repair clamps and fittings
- Couplings and flange adaptors
- Steel fabrication
- MDPE fusion welded
- Encapsulation collars
- Butt fusion and socket fusion.





Pipeline Resilience is a division of Doocey Group

[dooceygroup.co.uk](http://dooceygroup.co.uk)

Civil Engineering	Utilities	Multi Utilities
Traffic Management	Groundworks	Aggregate Recycling
Pipeline Resilience	Directional Drilling	Testing & Commissioning

**Quality You Can Build On<sup>®</sup>**

For more information on Pipeline Resilience telephone 0121 520 9874,  
email [sales@dooceygroup.co.uk](mailto:sales@dooceygroup.co.uk) or visit [dooceygroup.co.uk](http://dooceygroup.co.uk)

