



# PIPE INTRUSION SERVICES IRELAND LTD

## Bringing Pipe Intervention Methods to the Masses



Hot tapping and pipe line intervention methods have existed for quite some time. Originally developed to serve the needs of the Global oil and gas industries, over the years line intervention methods are slowly being embraced by other sectors.

Many people still believe that pipe intervention methods are high risk or unproven technology. This is far removed from reality. When planned and executed in a safe manner, risk can be mitigated or eliminated completely by various means.

Current technologies allow for processes such as hot tapping & line stopping to be undertaken on a wide range of services and systems.

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*"Hot Tapping - a tie in to an existing pipeline without interruption to the service within the pipe"*

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Advantages of engaging pipe intervention methods can have a positive effect for the Client, both from an operational and commercial perspective. Avoidance of costly system shutdowns or disruptive draining down of processes can often be prohibitive to a Client making a decision to implement certain changes, expansions or upgrades to their processes.

An example of one such intervention method is hot tapping. This is the process of carrying out a tie in to an existing pipeline without interruption to the service within the pipe. This can be achieved by the installation of a fitting to the existing service pipeline, often referred to as the parent pipe. This fitting can either be welded or mechanically bolted to the parent pipe. The fitting consists of a saddle arrangement complete with a flange. Threaded versions are commonly employed on hot taps 50mm and under in diameter. A valve is then connected to the fitting, completing the necessary arrangement to facilitate the hot tapping process.

The main criteria necessary for the valve to be utilised is that it has an uninterrupted port. Types of valve often used in such scenarios include sandwich, gate and for smaller bore applications ball valves. The next stage in the process is to complete the hot tap. A hot tapping rig is then attached to the valve, generally by means of flanged connection. The valve is fully opened giving the hot tap a clear, uninterrupted path to the surface of the parent pipe. The hot tapping machine then cuts a coupon through the wall of the parent pipe. The coupon is secured by means of retention clips and withdrawn through the valve port until the hot tapping machine is fully retracted. The valve is then fully closed, allowing the hot tapping machine to be removed. The Client is then left with a live, secure point of connection off the parent pipe allowing additional branch pipework to be installed.

At Pipe Intrusion Services Ireland Ltd. our goal is to make line intervention methods fully accessible to all sectors who feel they may benefit from such technology. We engage directly with our Clients to assist them with development of their plans by being proactive in proposing alternative means and methods of achieving the Client's end goal.

The range of services offered by Pipe Intrusion Services Ireland Ltd. include hot tapping, pipe freezing & various options of line stopping. If you have a project that you believe could benefit from such technologies give us a call to discuss your requirements.

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For more information visit Pipe Intrusion Services Ireland [www.pipeintrusions.ie](http://www.pipeintrusions.ie),  
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