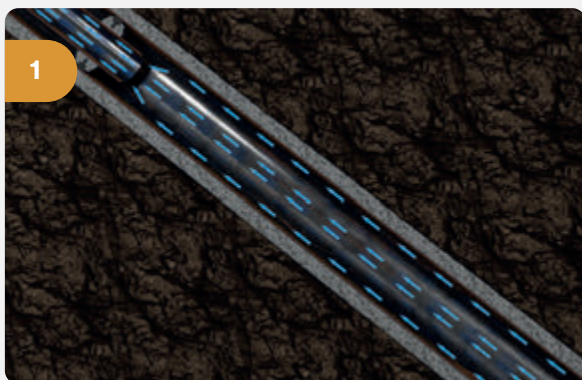


Provide a Seal in Through Tubing Applications, Wells with Restrictions & Large Diameter Casings



APPLICATION

The Wel-lok™ MXD (Maximum Drift) has been specifically developed for rigless through tubing applications. This tool has a smaller OD and higher expansion ratio than some of the other Wel-lok M2M™ tools but uses the same technology to create metal to metal (M2M™) seals. Unlike conventional through tubing tools utilising a petal basket and cement or inflatable packers, the MXD™ offers a gas tight seal up with up to a 10,000 psi differential pressure rating and can be deployed in a single trip. Utilising bismuth alloy pellets, deployed inside a bailer, eliminates restrictions of the volume of alloy that can be used to create a seal.

WEL-LOK™ - AN OVERVIEW OF THE TECHNOLOGY

The Wel-lok™ technology consists of utilising a modified thermite chemical reaction heater to melt bismuth-based alloys downhole. The melted alloys have a viscosity similar to water, and a specific gravity 10 times that of water, allowing them to flow into the smallest areas of a wellbore without the need of any surface pumping equipment. As the alloys cool and solidify, they expand to provide a seamless gas tight seal that is non-corrosive and not affected by H₂S or CO₂.

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Features



WEL-LOK™ MXD FEATURES

- Slim tool profile design to negotiate restrictions
- High expansion ratio capability for sealing in large diameters
- Utilises modified thermite chemical reaction heater to quickly melt bismuth based alloys
- Gas tight seal in large diameter casings without the use of elastomers
- Easy and quick to deploy in a single trip intervention
- Wireline set

KEY BENEFITS OF USING WEL-LOK™ MXD FOR INTERVENTION

- Reduced intervention costs
- Long lasting reliable sealing solution despite restricted access
- Extends the production life of the well
- Non-corrosive and not affected by H₂S or CO₂
- Reduced environmental impact
- Temperature ranges up to 160°C
- Available in a range of sizes to suit API & non API tubing casings