wel-lok™ PRT
Packer Repair Tool

Repair a Leaking Production Packer

Differential Pressure	Up to 10,000 psi
Maximum Tool Pressure Rating	20,000 psi
Temperature Range	0 - 175°C
Conveyance	Eline, Slickline, Coiled Tubing, Drill Pipe
ADR Classification	Not classified as dangerous goods
Casing Grade	All grades
Max Well Bore Deviation At Setting Depth	0 - 70°

Application

The wel-lok™ PRT (Packer Repair Tool) is designed to repair a leaking production packer by creating a new seal in the production tubing by casing annulus. Utilizing a PRT to seal the production annulus eliminates the need to remove the production string from the wellbore to replace the packer, reducing operator costs and downtime while introducing a superior seal in the well.

wel-lok™ PRT Features

- Advanced bismuth alloy technology with expanding metal seals
- Non-elastomeric seals
- Reduced operational footprint
- No moving parts, therefore high reliability
- Quick setting time - ready to pressure test in hours

wel-lok™ PRT Benefits for Intervention

- Increased oil / gas production
- Reduced intervention costs
- Reduced water handling costs
- Non-corrosive and not affected by H_2S, CO_2 or acids
- Reduced environmental impact
- Permanent solution
- V0 Qualified ISO 14310 Gas Tight “Eternal” Barrier
- Can seal in damaged, irregular or oval tubulars

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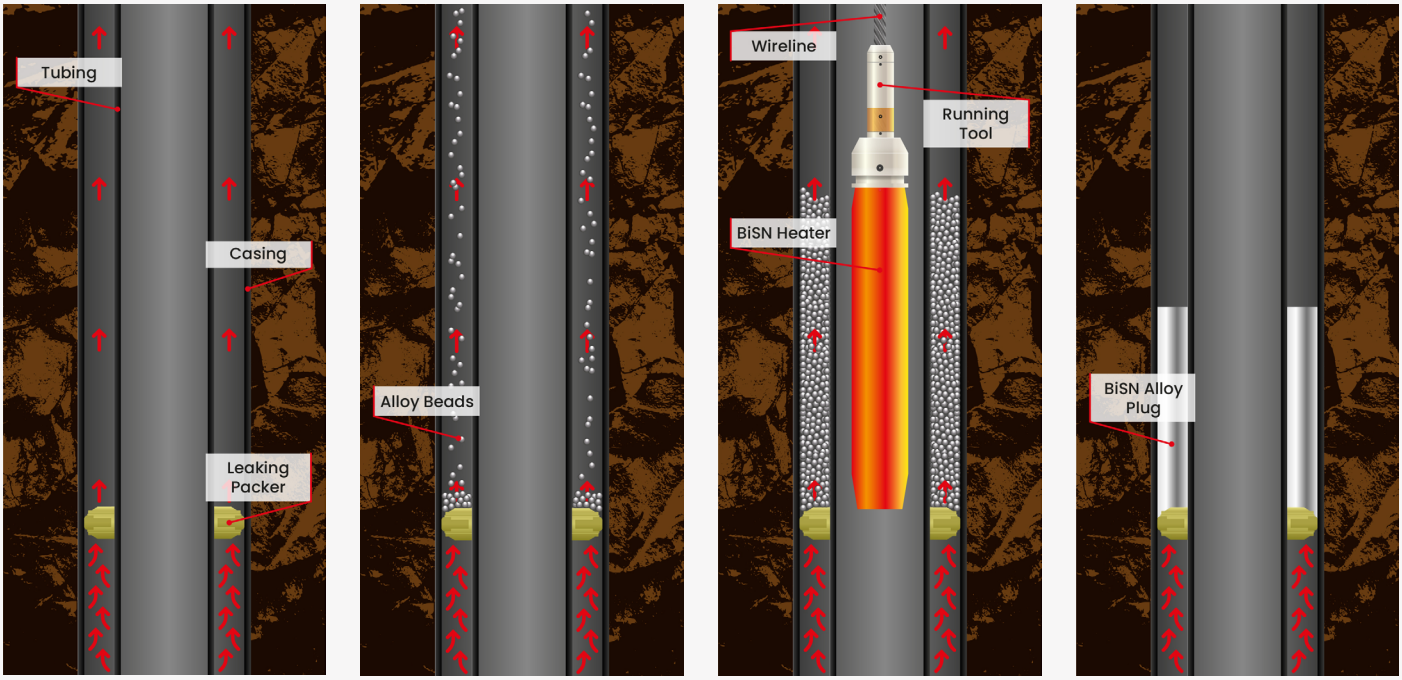
wel-lok™ PRT Technical Specifications

Inner Casing	Tool OD	Outer Casing
2 ⅞”	2.125”	5 ½”
2 ⅞”	2.125”	7”
3 ½”	2.625”	5 ½”
3 ½”	2.625”	7”
4 ½”	3.5”	7”
4 ½”	3.5”	9 ⅝”
5 ½”	4.25”	9 ⅝”
5 ½”	4.25”	10 ¾”
6 ⅝”	4.5”	10 ¾”
7”	5.5”	10 ¾”

wel-lok™ Technology Overview

The wel-lok™ technology consists of utilising a modified 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 H_2S or $C0_2$.

Scan above to find out more



As world leaders in the use of bismuth-based alloys and chemical reaction heaters in the downhole environment, BiSN has a portfolio of products aimed at tackling some of the most difficult issues faced by the oil and gas industry. We pride ourselves in building a responsive long-term working relationship with our customers and working closely with them to provide innovative solutions. With many hundreds of commercial deployments with all operators, in all conditions and with wide regulatory oversight globally, wel-lok™ technology is changing the face of downhole sealing in the energy industry.
See our website for our extensive case study portfolio as well as further information about us and our investors.

Seal Safer, **Protect** Forever.

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