

Precision Stimulation Tool

WELL INTERVENTION



PRECISION PLACEMENT IN ONE RUN

The Precision Stimulation Tool (PST) is a straddle packer tool that utilizes upper and lower packer elements to isolate intervals, and selectively inject acid or other treatments, throughout the wellbore. During operation, the packer elements are set independently to ensure 100% zonal isolation and enable optimized treatment pressure while inhibiting fluid-leak off.

Cup isolation technologies risk damage while tripping within scale and debris laden wellbores. In contrast, the PST packer elements, when unset, have no contact with the casing thereby prolonging the life of the tool and mitigating wear. Operators can deliver several treatments (50+) in a single run without having to trip to surface to replace damaged cups, preventing non-productive time (NPT).

On a single assembly, the PST combined with the industry proven Sandhawk BHA enables operators to locate, open and close Kobold's Sandport sleeves to perform pressure tests and treat anywhere in the casing string. The PST is also fully compatible with perforated casing, milled out ball drop completions, and competitors' CT shifted sleeves.

Features

- » Pressure set upper and compression set lower packer elements enable 100% zonal isolation for precise treatment injection
- » Operators have the option to set one packer element or both
- » Compatible with perforated casing, milled out ball drop completions, and competitors' CT shifted sleeves
- » Compatible with diversion agents, foam diverted acid and other common acidizing treatments

Benefits

- » Save Time - targeted treatment delivery throughout the wellbore in one run
- » Reduce NPT - Packer elements are protected when moving in the wellbore, prolonging the life of the tool and mitigating damage
- » Sandhawk BHA locate, open and/or close Sandport sleeves to perform pressure test or treat in a single run

Applications

- » Stimulation of new wells
- » Restimulation of existing assets
- » Selective acidizing
- » Solvent squeezes
- » Injectivity testing
- » Casing leak testing
- » Test or treat individual frac sleeves or perf clusters

Conveyance

- » Service rigs
- » Coiled tubing units

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Precision Stimulation Tool	114.3 mm 4.5 in	139.7 mm 5.5 in
Max. O.D	97.66 mm 3.845 in	120.39 mm 4.74 in
BHA Length	6.096 m 240 in	6.477 m 255 in
Weight Range	17.26 kg/m 11.6 PPF	20.83-34.22 kg/m 14-23 PPF
Burst Pressure	69 Mpa 10,000 psi	
Optimum Activation Rate	200-250 l/min 1.3-1.6 bbl/min	
Min. Activation Rate	150 l/min 94 bbl/min	
Max. Injection Rate	500 l/min 3.14 bbl/min	
Max. Temperature	90°C 194°F	
Fluid Compatibility	oilfield completion brines, acids and hydrocarbons	
Gas Compatibility	nitrogen and methane	