

# SPIN® DHSV Scale Prevention Tool

## WHAT IS THE SPIN®

The SPIN® is a patented concept that prevents inorganic scale from growing in pipes and valves. The principle can be applied in valves and other areas where a clean surface is necessary.

The SPIN®'s ability to prevent scaling in DHSVs is field proven in a well in Norway, and it has reduced the need for frequent operation of the valve as well as scale cleaning operations.

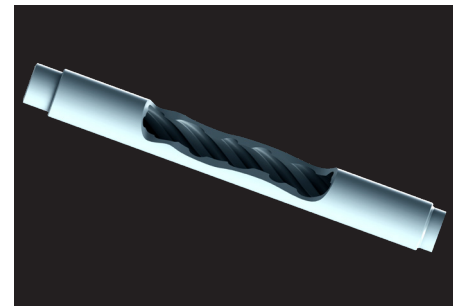
**SPIN® is available for tubing retrievable DHSVs, wireline retrievable DHSVs and as a sub upstream DHSVs for integration in the production tubing**



*SPIN® for installation inside tubing retrievable down hole safety valves*



*SPIN® for wireline retrievable down hole safety valves (single run)*



*SPIN® Tubing Sub in-completion solution to be installed upstream of the downhole safety valve*

## HOW CAN SPIN® HELP

Scale precipitation in the production system, where water or chemically incompatible fluids are present, is common, but it becomes harmful if deposition and crystal accumulation occurs.

The physical structure of valves and other internal elements, attract and enable scale deposition and

growth. SPIN® finds its application in wells, flowlines, risers and topside where it can be installed to protect valves. It aims to locally amend the flow pattern, hence preventing scale deposition and accumulation.

Forthcoming designs will focus on applications for gas lift valves and ESP's.

**Effect of SPIN® from First Installation**

