

SwageSet V0 Packoff Stage Tool

Promotes gas-tight well integrity in second-stage cementing with a V0-qualified seal

Applications

- Weak or sensitive formations that require isolation from increased pressures during cementing operations
- Two-stage cementing operations that call for the elimination of casing-by-casing annular gas migration
- Deep, hot wells with high differential pressures because of fluid losses below the stage tool
- Cementing operations that require Internal and external gas-tight casing integrity

Features and Benefits

- Qualified to the International Organization for Standardization (ISO) 14310 V0 standard, the gas-tight mechanical packer enables more reliable multistage cementing jobs for deep gas wells in which pressures often exceed the rated limit of inflatable packer elements.
- Qualified to the ISO 14998 V0 standard, the tool enables consistent and reliable, internal and external gas-tight well integrity after operational cycles of opening and closing.
- Packer slips support high axial loads to prevent movement of the packer seal.
- Setting is isolated from pressure spikes while circulating, which prevents premature setting.
- The anti-rotation design improves drillout time, which reduces operational cost.

Tool Description

The Weatherford SwageSet V0 packoff stage tool (POST) is a high-pressure, high-temperature, gas-tight stage cementing tool used in cased-hole applications. It integrates a hydraulic-set version of the SwageSet liner-top packer and the mechanical-stage cementing tool from the Model 786PD POST.

The SwageSet V0 POST is made up in the casing and positioned in the well. After the first-stage cement job is performed and the first-stage plug lands on the float collar or landing baffle, the tool is locked out from pressure events. Applied pressure expands the metal packer element to create a near-zero extrusion gap, and hydraulically set packer slips create gas-tight isolation from the open hole below. Additional pressure shears the external sleeve to enable circulation through the open ports for the second-stage cementing operation. Closing the ports with the plug creates a V0-qualified, internal and external gas-tight seal.



The SwageSet V0 POST provides gas-tight, reliable well integrity after operational cycles associated with opening and closing, loading, and temperature.

