

Collapsible Stabilizer

Preventing bottomhole assemblies from sticking in horizontal, extended-reach wells

Applications

- Serve as the uppermost stabilizer in a bottomhole assembly (BHA)
- Prevent BHA sticking during drilling or retrieval operations in horizontal, extended-reach wells
- Clean cuttings from the borehole

Features

- The simple design of the collapsible stabilizer assures reliable performance.
- The collapsible stabilizer quickens BHA retrieval in challenging wellbores and helps avoid lost-in-hole tools and downtime.
- The hydraulic force that pushes and locks the stabilizer blocks against the body provides tool stability and minimizes vibration during normal drilling.
- The nozzles enable hole cleaning around the tool when sticking occurs.

Tool Description

The Weatherford collapsible stabilizer stops BHAs from sticking during drilling or retrieval operations in horizontal, extended-reach wells. In this challenging environment, cuttings are more likely to build up at the uppermost stabilizer and cause BHA sticking.

Serving as the uppermost stabilizer in a BHA, the collapsible stabilizer reduces its outer diameter (OD) if sticking occurs. As the drillstring is pulled upward, a predetermined amount of force is applied to the stabilizer blocks, which causes them to collapse against the body. The nozzles, which are closed during normal drilling, open and enable the flow to divert around the tool to the annulus and clean the cuttings from the borehole. The BHA can then be pulled easily out of the hole.



Closed

Open

The Weatherford collapsible stabilizer averts BHA sticking by contracting the stabilizer blocks to reduce its OD and by opening nozzles to create flow that cleans cuttings from the borehole.



Collapsible Stabilizer

Specifications

Series 12250	Measurements
Standard stabilizer block diameter ¹ (in., mm)	12.125 307.97
Collapse diameter (in., mm)	< 11 < 279.4
Body OD (in., mm)	10-1/4 260.35
Internal diameter (in., mm)	2.81 71.37
Top connection	6-5/8 REG box
Fishing neck OD (in., mm)	8-1/4 209.55
Minimum fishing neck length (in., mm)	18 457.2
Bottom connection	6-5/8 REG pin
Shear value at which the tool collapses ² (lb, kg)	20,000 to 60,000 9,071.84 to 27,215.54
Overall makeup length (in., mm)	123.5 3,136.9
Available nozzle size 1/32 ³ (in., mm)	7 to 32 177.8 to 812.8
Weight (lb, kg)	1,840 835

¹The different diameter sizes of the stabilizer blocks may be available or custom designed.

²The shear value can be set up in 5,000-lb increments.

³The nozzle can be blanked.

