

WELL COMPLETIONS | LINER HANGERS

VersaFlex® XSL breech lock expandable liner hanger system

Reach total depth during extended-reach and long horizontal completions

FEATURES AND BENEFITS

Breech lock running tool

- Multiple applications
- Rotational and reciprocation capability (deployment and cementing)
- Up to five times the compressive load capacity of a standard VersaFlex expandable liner hanger and tool system

Breech lock hanger

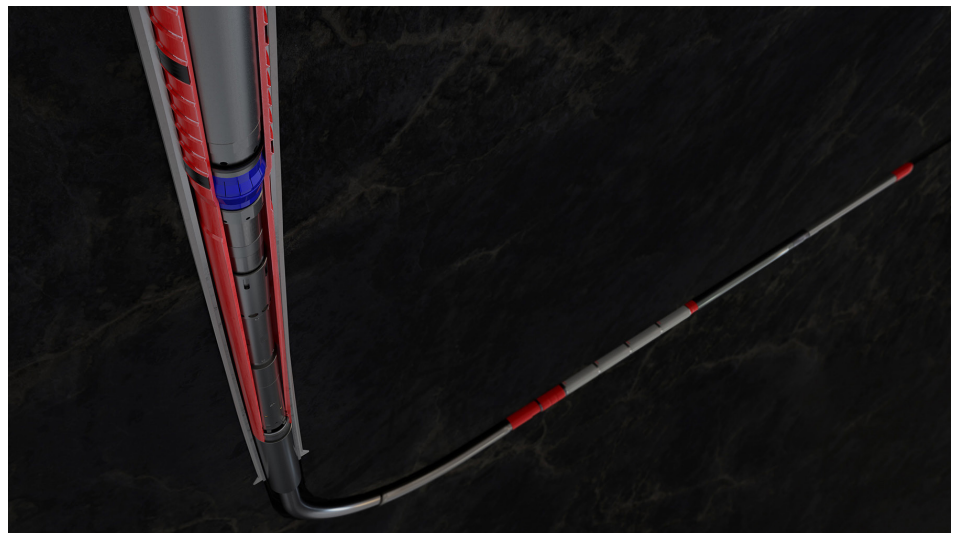
- Gas-tight seal
- Metal-to-metal sealing
- Immediate liner-top integrity test
- Withstands high-circulating rates
- No external moving parts
- Sets in any casing hardness

CAPEX

- Reduces rig time
- Eliminates remediation

Overview

When liner strings must travel through tortuous well paths, such as sudden elevation drops or azimuthal swings, or in short-radius horizontal wells, liner deployment often requires extreme compressive force. The VersaFlex® XSL Breech Lock expandable liner hanger system provides an unparalleled, unique design to increase the compressive load capability of the running tool. This allows operators to reach total well depth, particularly in highly deviated or long openhole, horizontal wells and extended-reach drilling (ERD) wells. The system also addresses concerns associated with deployment of liner strings made up of multiple stimulation components. Excessive loads on the liner hanger are eliminated and directed to the liner threads instead to minimize risks during liner hanger deployment and setting operations.



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How it works

The VersaFlex® XSL Breech Lock expandable liner hanger system utilizes the same proven running tool design as its parent VersaFlex system, with the same unmatched reliable set-and-forget metal-to-metal sealing technology. The VersaFlex Breech Lock running tool works in tandem with the VersaFlex XSL Breech Lock expandable liner hanger to support liner deployment with its rotational and reciprocation capability, which allows for the best possible cement placement and bond, when required and within string limits. As an integral hanger/packer system with no moving parts, this helps eliminate costly tool failures associated with downhole equipment with externally exposed parts and setting mechanisms.

The VersaFlex XSL Breech Lock system provides a competent gas-tight, metal-to-metal seal — without cement — on setting at high angles because compressive loads are not required to activate, set or seal the liner-top packer.

Applications

- Cemented liners
- Unconventional reservoirs utilizing frac sleeves and isolation devices
- Perforated or screen liners
- Horizontal/ERD well trajectories

VersaFlex® XSL breech lock expandable liner hanger system specifications

BREECH LOCK RUNNING TOOL	SET TYPE	BODY PROFILE	LINER SIZE	HANGER SIZE
			IN.	IN.
Standard Breech Lock	Ball	VersaFlex® XSL VersaFlex® XSL	4 1/2; 5 5 1/2	7 7
Adjustable Pressure-Set Breech Lock	Ball	VersaFlex® XSL	4 1/2; 5	7
High-Torque Breech Lock	Flapper or Ball	VersaFlex® XSL	7; 7 5/8	9 5/8; 9 7/8

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