

# VersaFlex® XSL-ZE Expandable Liner Hanger

## ZERO-ELASTOMER DESIGN HIGHLIGHTS A MAJOR STEP CHANGE IN EXPANDABLE LINER HANGER SEALING DESIGN AND RELIABILITY

### OVERVIEW

The VersaFlex® XSL-ZE (zero-elastomer) expandable liner hanger system is the next evolution of expandable liner hanger technology. This latest innovation from Halliburton Liner Hangers removes all resilient elastomers from the VersaFlex XSL hanger body and features rigorously tested, engineered interference ribs to deliver a step change in downhole deployment and isolation technology.

Based on the proven VersaFlex XSL liner hanger system, the XSL-ZE expandable liner hanger maintains the original design characteristics of low-to-moderate load-bearing capabilities, without sacrificing its gas-tight sealing capability or reliability, and delivers enhanced temperature capabilities. The system provides significant value to well construction projects without compromising quality and continues the Halliburton legacy of industry-leading expandable liner hanger technology with a total system approach to liner installations.

### OPERATION

The XSL-ZE liner hanger's unique body profile incorporates engineered interference ribs, which provide a fully compliant metal-to-metal seal with full bi-directional anchoring capability, without any external moving parts. This robust liner hanger system mitigates traditional liner system pre-set risks, and its unique integral design eliminates any body connections or leak paths below the liner-top seal. In addition, the clean-form design provides a smooth radial flow path to allow for unrestricted bypass area, which assists in reducing equivalent circulating densities (ECDs) during all phases of the operation.

A standard-length upper tieback receptacle for tieback operations is included. The lower setting sleeve can be adapted or easily threaded to a wide range of thread connections and compatible weight ranges.

### APPLICATIONS

- » Conventional, onshore, offshore, vertical and horizontal liner installations

### FEATURES

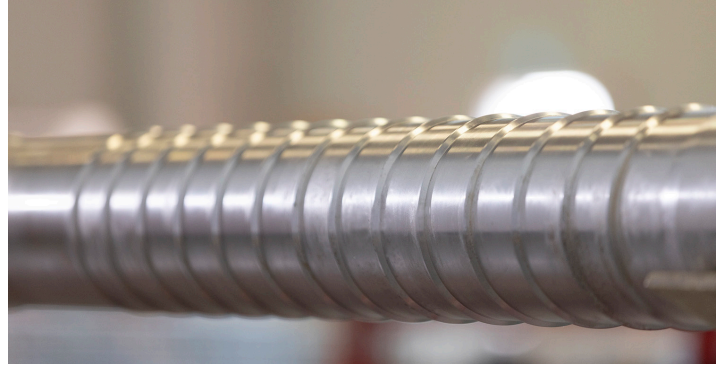
- » Shortened one-piece expandable hanger body design with engineered interference ribs (non-damaging to parent casing ID)
- » 360° hydraulically energized metal-to-metal sealing package
- » Bi-directional anchoring and sealing capability
- » Wash and ream during deployment; rotate and reciprocate during cementing operations
- » Deployed with a wide range of VersaFlex running and setting tools equipped with conversion kit
- » Compatible with wide range of industry-standard cementing accessories



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**BENEFITS**

- » Ready-to-run system — install running/setting tool and test before shipping
- » Set-and-forget sealing — design simplicity helps eliminate risks associated with conventional liner hangers
- » Unmatched metal-to-metal gas-tight seal reliability
- » Running tools provide hydraulic hanger body expansion — no string weight to set required
- » Cement not required for pressure integrity
- » Based on field-proven VersaFlex® XSL system technology

**VersaFlex® XSL-ZE Expandable Liner Hanger System**

Size in. (mm)	Casing Weight lb/ ft (kg/m)	Min ID <sup>1</sup> in. (mm)	Max OD in. (mm)	Tieback Receptacle Sealbore ID in. (mm)	Expansion Body Material
5 x 7 (127 x 177.8)	29.00–32.00 (43.15–47.62)	4.739 (120.37)	5.88 (149.35)	5.25 (133.35)	Low alloy steel, 110 ksi MY
5 1/2 x 7 5/8 (139.7 x 193.7)	29.70–33.70 (44.2–50.15)	4.735 (120.27)	6.56 (166.62)	5.25 (133.35)	Low alloy steel, 110 ksi MY
7, 7 5/8 x 9 5/8 (177.8, 193.7 x 244.5)	47.00–53.00 (469.94–78.87)	6.609 (167.87)	8.325 (211.46)	7.75 (196.85)	Low alloy steel, 110 ksi MY
8 5/8 x 10 3/4 (219.075 x 273.05)	45.5 (67.71)	7.899 (200.63)	9.660 (245.36)	8.799 (223.49)	Low alloy steel, 110 ksi MY

<sup>1</sup>Minimum ID does not include lower thread connection.

**Product Selection:**

Additional sizes, weight ranges, material and material grades are available. Please contact your local Halliburton Completion Tools representative to determine which product and properties best fits your needs.

For more information, contact your local Halliburton representative or visit us on the web at [www.halliburton.com](http://www.halliburton.com)

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