

Xpress Liner System

Combines a high-performance packer and hydraulic-set hanger in a common body to provide long-term well integrity

Applications

- All cemented and non-cemented liner operations

Features and Benefits

- Three-piece packing elements create a reliable seal that isolates gas migration in the cement below the packer from the annulus above, saving the cost of a liner-top squeeze.
- One-piece mandrel design eliminates internal connections and removes the risk of associated leaking connections, to improve production performance.
- Its high-torque mandrel accommodates premium connections that meet or exceed the torque of the liner connections, to aid in getting the liner to total depth (TD).
- Its large slip-contact area minimizes stress in the host casing, enabling the Xpress hanger to support extreme loads from long liners and withstand hydraulic loads from fracking.
- Hold-down slips and an integral body lock-ring ratchet system positively lock in the applied setting forces, so that the packer remains set.
- Non-tortuous bypass channels allow for high circulation rates past the hanger assembly, to aid in removing debris and improving cement displacement.
- An optional heavy-duty bearing enables rotation of the liner after the hanger has been set and during cementing operations, to enhance the quality of the cement bond.
- Key screws rotationally lock the hydraulic cylinder to the mandrel to prevent seal damage during rotation.
- A locking feature in the connector ring prevents liner hangers from setting while tripping in the wellbore, to get the liner to TD in harsh environments.
- Nitrided slips ensure that the liner hanger can be set in the hardest grades of host casing, to boost reliability.
- Premium-designed aluminum shear screws facilitate accurate, predetermined setting of pressures, enabling hydraulic events to be planned accurately and with a high degree of safety.
- The Xpress system design and performance consistently meet or exceed new API 19LH standards. This system permitted no gas leakage to attain an API 19LH rating of VS1.



The Xpress liner-hanger system combines multi-tool functionality into a single package that increases reliability when running in the hole, reaming, or circulating at high flow rates.



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Tool Description

The Weatherford Xpress liner-hanger system builds on the success of premium hydraulic-set rotating liner-hangers by combining a high-performance packer and a hydraulic-set hanger in a common body. The major components of this liner-system—including the unibody packer and hanger, polished-bore receptacle, and running tools—all run together as a single integrated package.

Specifications

Liner Size*	Liner Weight	Parent Casing Size	Parent Casing Weight	Standard Metallurgy
5 in. (127 mm)	15 to 18 lb/ft	7 in. (177.8 mm)	26 to 32 lb/ft	L-80 and P110 125,000 psi (862 MPa)
7 in. (177.8 mm)	26 to 32 lb/ft	9-5/8 in. (244.48 mm)	47 to 53.50 lb/ft	

*Other sizes are currently under development

