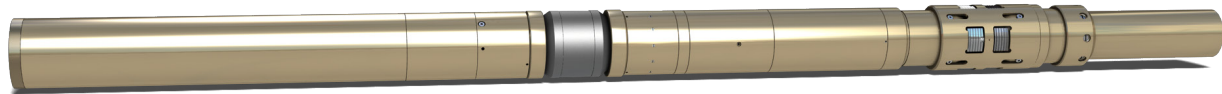


GUARDIAN™

LINER HANGER PACKER



DEPENDABLE HANGING AND SEALING CAPABILITY FOR OPENHOLE LINERS



The Guardian™ is an integral liner hanger packer providing extreme strength and reliable pressure integrity for the most challenging environments. Peak introduced the tool in early 2012 and since has had over 500 successful runs.

The tool is a hydraulically set hanger with a secondary mechanical element packer feature. Bi-directional slips ensure the heaviest liners are held securely in place. Micro-annular leaks are prevented at the liner top with the tool's premium, high pressure packing element system.

The Guardian™ features a dual anti-preset design that prevents it from prematurely setting while running in hole. The tool's upper seal bore incorporates multiple configuration options and allows for latch-in or floated sealing while maintaining a full casing ID.

The Guardian™ can be used with Peak's various openhole multistage stimulation systems. The tool comes standard with a 10k psi / 350°F rating and is also available for HPHT applications.

GUARDIAN™ LINER HANGER PACKER



PRODUCT HIGHLIGHTS

- Hydraulic set hanger / packer utilizing proprietary, high pressure packing element
- Design includes a secondary mechanical packer setting feature
- Dual anti-preset feature reduces mechanical risk
- Packer forms annular seal to prevent micro-annular leaks at liner top
- Proven double-grip slip system
- Upper seal bore allows for latch-in or floated sealing for frac, accommodating all ball sizes, perforating guns, and Peak Gold Plugs™

DESIGN FEATURES

- Standard 10K psi / 350°F rating – HPHT adaptable
 - Single trip alternative to conventional
- Right hand rotation to release hydraulic setting tool after packer is set
- Solid upper seal bore is solidly attached to packer mandrel – no floating o-ring design
 - Packer can be set with mechanical backup system
 - Hydraulic release setting equipment available
 - LTC, BTC, and premium thread options available

QUICK TECH DATA

TEMPERATURE RATING	STANDARD PRESSURE RATING		STANDARD CASING SIZES	
	psi	MPa	in	mm
HPHT Adaptable	10,000	69	5.5 x 2.875	139.7 x 73.025
			7 x 4.5	177.8 x 114.3
			7.625 x 4.5	193.7 x 114.3

NOTE: ADDITIONAL SIZES AND HPHT VERSIONS AVAILABLE