



Weatherford Premium Hydraulic-Static (WPHS) Liner Hanger

Tight Tolerance

Weatherford's premium hydraulic-set static liner hanger is designed for deepwater applications in basins globally and features tight clearances between the liner and host casing. The cone and slip sections optimize bypass, making the WPHS liner hanger ideal for drilldown and reaming-liner applications.

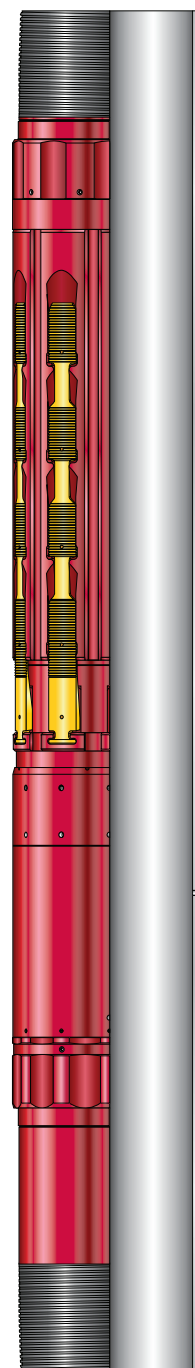
Differential pressure across the hydraulic cylinder activates the WPHS liner hanger. Applying weight to the WPHS liner hanger sets it, thereby forcing the slips to bite into the host casing.

Applications

- Liners in deep and/or deviated wells
- Extended-reach liners
- Liners at any necessary depth
- Drilldown liners
- Liners that must be reamed down

Features, Advantages and Benefits

- Hydraulic activation removes the need for drillstring manipulation, making it possible to set the WPHS liner hanger in deep and/or highly deviated wells.
- The large, slip-contact area minimizes stress in the host casing and liner hanger, enabling the WPHS liner hanger to support extreme loads.
- The WPHS liner hanger incorporates a profile and sealbore for Weatherford's retrievable seal mandrel (RSM)—a retrievable cement packoff—eliminating the need for, and cost of, a separate assembly.



13-3/8 × 16 in.

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Features, Advantages and Benefits (continued)

- Nitrided slips ensure that the liner hangers can be set even in the hardest grades of host casing, contributing further to its reliability.
- Nontortuous bypass channels enable high-circulation rates past the hanger assemblies, aiding in debris removal during well-cleaning and improving the quality of cement displacement.
- The WPHS liner hanger optimizes the burst and collapse ratings of the body and cylinder, thereby providing optimal performance.
- An integral gauge ring ensures that the crossover does not require the manufacture of a customized, oversized, and costly OD, and no longer functions as the gauge ring.
- Premium-designed aluminum-shear screws ensure accurate, predetermined setting pressures within $\pm 5\%$ for enhanced reliability, enabling hydraulic events to be planned with a high degree of accuracy and safety.

* Not applicable to 16" x 20" size. The size uses mild steel shear screws.

Specifications

Size (in./mm)		Weight (lb/ft, kg/m)		Bottom Connection	Material	Part Number
Liner	Casing	Liner	Casing			
9-5/8 244	11-3/4 298	53.5 79.7	65.0 to 66.7 96.9 to 99.4	WHC	P110 125KSI	1126826
9-5/8 244	13-3/8 340	43.5 to 58.4 64.8 to 87.0	48.0 to 77.0 71.5 to 114.7	VAM® TOP	L80	1388499
					P110 125KSI	1130098
11-3/4 298	13-3/8 340	60.0 to 65.0 120.7 to 96.9	72.0 107.3	Hydril® 561	API 140KSI	1125262
13-3/8 340	16 406	68.0 101.3	84.0 to 109.0 125.2 to 162.4	Hydril 563	Q125	1736016
					L80	1774159
16 406.4	20 508	84.0 125.2	133 to 203 198.2 to 302.5	VAM Dino	Q125	02052154

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