

COVERED SLIP HYDRAULIC LINER HANGER

MODEL: WC-CSLH [Rotational] & WC-CSLH-N [Non rotational]

PRODUCT No.-WC-10101 & WC-10130

This unique compact design [shortest length ever in the world] liner hanger could be installed in highly deviated or horizontal wells with the liner string by mounting the hanger directly into a Casing. The hanger is provided with premium O-rings and glass-filled Teflon back-up rings to seal in the hydraulic cylinder. Sealing system has a pressure rating of 10,000 psi at 400° F. A high-strength alloy cylinder provides maximum burst and collapse rating as per customer's requirement/demand.

The hydraulic version is ideal for liner applications where corrosion-resistant alloys are incorporated in the liner casing. This could be installed on the CRA casing, which results in a huge cost savings when compared to a solid-body type hanger.

The hanger is set by applying pressure through the run-in string. A setting ball is circulated or dropped to a ball seat in the landing collar. Applied pressure acts on an internal piston/setting collar, moving the slips up the cones to the set position.

The Hydraulic Set Rotating Liner Hanger incorporates a tapered roller bearing assembly which allows the liner to be rotated in the set position while cementing the liner.

The hanger body is furnished with higher group of API 5CT standard materials as well as with the end connections in compliance to API standards or any premium threads as per the customer's requirement/demand. Materials suited for H₂S or CO₂ service are available on request.

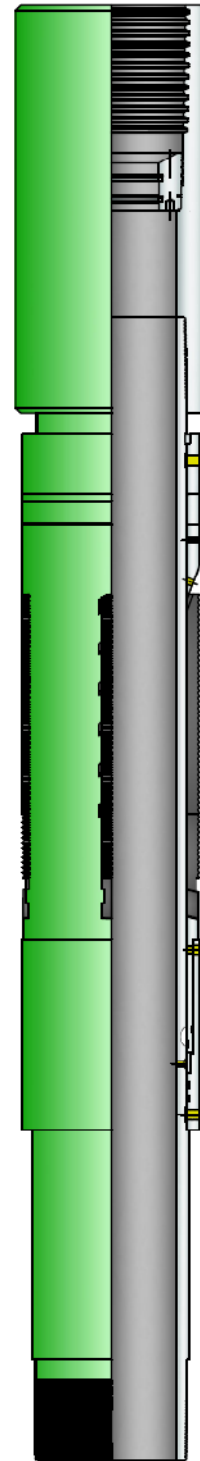
■ Features / Benefits:

- Unique patented slip design provides more slip contact area and uniform loading in the casing.
- Tapered roller bearings allow liner to be rotated in set position.
- Slip and cone designed for minimum casing stress levels.
- Capable of hanging long and heavy liners.
- Hardened slips bite and hold in all standard casing grade.
- Hydraulic cylinder stays stationary with respect to the body, ensuring all seals remain static during rotation.
- Large annular flow area in set position ensures minimum pressure drop during cementing.
- The liner hanger body and cylinder have burst and collapse ratings equal to or greater than the API spec. for relevant grade of casing, unless otherwise stated.
- Large range of applications depending on type of running tool and wiper plug system selected.

Applications:

- Case off open hole more rapidly and easily.
- Deepening of old wells.
- Drilling with tapered drill string.
- To accomplish a sidetrack from vertical hole
- Flexibility to place slotted liner in open hole or horizontal wells

- Liner hanger features, protected slips, and a heavy-duty tapered roller bearings.



■ Specification Guide:

Liner Hanger Size (Casing X Liner)		Casing Weight (lbs/ft)	Max. OD In.	Total Length Approx. In.
In	mm			
5 X 3 1/2	127 X 88.9	13 – 15	4.188	60.125
		18	4.062	
5 1/2 - 3 1/2	139.7 X 88.9	14 – 15.5	4.625	60.125
		17	4.500	
		20 – 23	4.375	
5 1/2 X 4	139.7 X 101.6	14 – 15.5	4.750	60.125
		17	4.625	
		23	4.460	
6 5/8 X 4 1/2	168.275 X 114.3	28 – 32	5.375	61.375
		35	5.350	
7 X 4 1/2	177.8 X 114.3	20 - 26	6.000	63.250
		26 - 32	5.875	
		35	5.750	
		38 - 41	5.625	
7 X 5	177.8 X 127	17 -20	6.125	63.250
		23	6.000	
		26-32	5.875	
		35	5.750	
		38 - 41	5.625	
7 X 5 1/2	177.8 X 139.7	23	6.156	63.250
		23 – 26	6.062	
		29	5.970	
7 5/8 X 5	193.7 X 127	20 – 26.4	6.688	64.313
		29.7 – 33.7	6.500	
		39	6.375	
		39 – 45.3	6.250	
		42.8 – 45.3	6.125	
7 5/8 X 5 1/2	193.7 X 139.7	20 – 26.4	6.688	64.313
		29.7 – 33.7	6.500	
		39	6.375	
		42.8 – 45.3	6.250	
8 5/8 X 5 1/2	225.107 X 139.7	32 -36	7.562	65.688
8 5/8 X 6 5/8	225.107 X 168.275	40-44	7.375	65.688