

MAXIMUS

Completion Systems



LINER HANGER SYSTEMS

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**MAGNUS POCKET SLIP
HYDRAULIC LINER HANGER WITH
LTP**

TECH UNIT No.	255
MODEL	MPSLH-LTP
DATE	06/01/2018
REV.	00

**MAGNUS POCKET SLIP HYDRAULIC LINER HANGER
WITH LTP****DESCRIPTION**

The Pocket Slip hydraulic liner hanger with integral liner top packer has a unique compact design for highly deviated or horizontal wells. The hanger is equipped with premium O-rings and glass-filled Teflon backup rings to seal in the hydraulic cylinder. A high-strength alloy cylinder provides maximum burst and collapse rating.

The hanger is set by applying pressure through the Drillpipe. A setting ball is circulated or dropped to the ball seat in the landing collar or running tool. Applied pressure acts on an internal piston, moving the slips up the cones to the set position. The hydraulic-set liner hanger incorporates a tapered roller-bearing assembly, if required, which allows the liner to be rotated in the set position while cementing the liner.

The liner-top packer is a high-performance packer that is suited for most applications and sets by applying set down weight.

FEATURES

- The packer provides an effective annular seal between the top of the liner and the parent casing.
- Compact design.
- Weight-set sealing element.
- Pocket-slip arrangement.
- The liner-top packer features hold-down slips, making it suitable for use in deviated or horizontal wells. Connection to accept an upper tieback receptacle is standard.

Applications

- Drilling liner
- Production liner
- Open hole horizontal wells
- Unconventional completion



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LINER HANGER SYSTEMS TECHNICAL UNIT

Authored by: RAJAT

MAGNUS POCKET SLIP LINER HANGER

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Liner Hanger Benefits

- Unique protected slip design provides more slip contact area and uniform loading.
- Available in rotation or non-rotation models in which tapered roller bearings allow the liner to be rotated in the set position.
- Hydraulic cylinder remains stationary with respect to body, seals static during rotation.
- 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 grades.
- Large annular flow area in set position helps ensure minimum pressure drop.
- Body and cylinder have burst and collapse ratings equal to or greater than the API specifications for the relevant grade of casing (unless otherwise stated)
- The slip-seat design provides a weld free assembly to transmit the liner load to the casing.

LTP Benefits

- High-performance, compression-set liner-top packer.
- Provides effective annular seal at liner top.
- Prevents formation breakdown, loss of cement slurry, and gas migration.
- Integral body lock ring holds positive set-in seal elements.
- Hold-down slips prevent light liners from moving



**PACKER SYSTEMS
TECHNICAL UNIT**

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SPECIFICATION GUIDE LINER HANGER

LINER SIZE	HANGER SIZE	CASING PPF	HANGER MAX OD
3 1/2	5	18	4.120
		11.5 - 15	4.240
4	5 1/2	14 - 17	4.732
		20	4.618
4 1/2	7	42.7	5.560
		35-41	5.625
		26-32	5.875
		17-26	6.057
5	7	38-41	5.675
		35-38	5.775
		32-35	5.820
		26-32	5.924
		17-26	6.106
5 1/2	7	26-29	6.000
		23-26	6.090
5	7 5/8	47.1	6.215
		42.8-45.3	6.275
		29.7-39	6.455
		24-33.7	6.595
5 1/2	7 5/8	47.1	6.215
		42.8-45.3	6.275
		29.7-39	6.455
		24-33.7	6.595

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6 5/8	9 5/8	58.4	8.135
		40-53.5	8.334
7	9 5/8	40-53.5	8.334
		43.5-58.4	8.234
7 5/8	9 5/8	53.5	8.359
		43.5-47 & 53.5 SD	8.480
		32.3-40	8.634
7 5/8	10 3/4	32.75-55.5	9.460
		51-73.2	9.152
9 5/8	11 3/4	71	10.410
		65-66.7	10.475
		60-65	10.480
		54-60	10.571
		42-54	10.679
9 5/8	13 3/8	48-98	11.718
		88.2	11.750
9 7/8	13 3/8	48-72	12.050
10 3/4	13 3/8	48-72	12.146
13 3/8	16	75-84	14.700
		97	14.562
		109	14.375
16	20	94-169	18.063