

# HMR-MSF LINER HANGER SYSTEM WITH MECHANICAL RELEASE FOR MSF

## APPLICATION

HMR-MSF Liner Hanger System is specially designed for multistage hydraulic fracturing and for non-cemented liner applications. HMR-MSF is used to suspend the liner in a previous casing using a liner hanger. Work string is used to run in hole the liner to the desired setting depth without rotation. Running tool with mechanical release is then retrieved from the well once the liner is in place.

## FEATURES AND BENEFITS

- Hydraulic Liner Hanger with mechanical release running tool without rotation during RIH makes HMR the low-cost option in TSS product line, that makes it ideal for conventional wells providing an economic benefit to the customer.
- Ball seat is located in the landing collar or activation sub below the Liner Hanger Systems.
- HMR-MSF allows activation of hydraulic elements for multistage hydraulic fracturing system (frac sleeves, mechanical hydraulic packers).
- Full-bore ID after running tool retrieve imposes no restrictions to liner access for future intervention and remedial operations.
- Hydraulic activation of the Liner Hanger eliminates the need for drillstring manipulation.
- HMR-MSF Liner Hanger System withstands high tensile loads.
- HMR-MSF Liner Hanger System withstands high differential pressures.

## LHS COMPONENTS

- Polished Bore Receptacle** provides a mean of tying back into the liner with seal assembly for multistage hydraulic fracturing or with second isolation packer.
- Liner Top Packer provides** high integrity annulus sealing.
- Hydraulic Hanger provides** a specified holding force.
- Rental equipment:** Debris barrier, running tool with mechanical release, pack-off bushing.

## TECHNICAL DATASHEET

TECHNICAL CHARACTERISTICS	VALUE				
	4.000			4.500	
<b>Liner size, in</b>	4.000			4.500	
<b>Casing size, in</b>	5.500	5.750	6.625	6.625	7.000
Length, ft	12.2	12.2	13.0	11.9	
Max OD, in	4.606	4.764	5.551	5.551	5.984
ID after activation, in	3.465			3.898	
Material*	P-110				
Tensile, lbf	180				
Max differential pressure, psi	10,000				
Burst, psi	10,000				
Collapse, psi	10,000				
Max working temperature, °F	248				
Design Validation Grade / Quality Grade	V3 / Q2				

\* Other options are available as per Customer request.



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