SDD hydraulic-set liner hanger

Ensure reliability when running a liner through difficult formations

Applications

- Formations that require aggressive reaming to get the liner to depth

Features and Benefits

- Robust solid-body design
  - Allows rotation at high torque and revolutions per minute (RPM) with protection from slip damage
- Large bypass area
  - Allows high circulation rates and removal of debris without packing off
- Hydraulic piston activation
  - Improves burst and collapse ratings over conventional hydraulic-set hangers
  - Slips tied to a common activator ring
  - Ensures uniform contact with casing
- Compact deign
  - Reduces pressure drop and minimizes rigid tool length when working through dog legs

The Baker Hughes **SDD™ hydraulic-set liner hanger** is built for running the liner to depth in rough formations. It offers a rugged, solid-body design that can withstand aggressive rotation for many hours as the liner is worked to depth, ensuring reliability when difficult formations are encountered.

The solid hanger body is machined from one piece to provide durability, complete protection for the slips, and to provide a large fluid bypass area for unimpeded circulation of cuttings and debris. The aggressive cutting shape of the skids helps break up cuttings while the liner is being worked down, and carbide buttons reduce outside diameter (OD) wear.

Heavy duty slips are standard to provide high load capacities. The hanger slips are actuated by discrete pistons, rather than by a hydraulic cylinder. This improves burst and collapse ratings over conventional hydraulic-set hangers. Pressure acting on the setting pistons generates force to stroke the activator ring. As a result, fluid channels can be milled as deep as the OD of the liner between the slip cavities.

In most sizes, burst and collapse ratings are equal to mechanical-set hangers because there is no hydraulic cylinder. Contact your Baker Hughes representative or visit www.bakerhughes.com/linersolutions to learn how our SDD hydraulic-set liner hanger can ensure reliability when running your liner to depth in difficult formations that require aggressive reaming.

Bypass comparison (flow area In white)

Conventional hydraulic liner hanger

SDD hydraulic liner hanger

Liner hanger size (liner x casing)	Casing weight		Maximum OD	
In.	Lb/ft	Kg/m	In.	mm
5.000 x 7.000	26.0 to 32.0	38.8 to 47.7	5.930	150.6
	35.0 to 38.0	52.2 to 56.7	5.758	146.3
5.000 x 7.625	33.7 to 39.0	50.3 to 58.2	6.455	164.0
5.500 x 7.625	33.7 to 39.0	50.3 to 58.2	6.455	164.0
	42.8	63.8	6.331	160.8
7000 x 9.625	36.0 to 43.5	53.7 to 64.9	8.500	215.9
	47.0 to 58.4	70.1 to 87.1	8.234	209.1
7.625 x 9.625	53.5	79.8	8.334	211.7
7.625 x 10.750	32.8 to 65.7	48.9 to 98.0	9.355	237.6
9.625 x 11.750	60.0 to 66.7	89.5 to 99.5	10.450	265.4
9.625 x 13.375	61.0 to 72.0	91.0 to 107.4	12.004	304.9

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