

# SAPSAN

## NON CEMENTED LINER HANGER

### DESCRIPTION

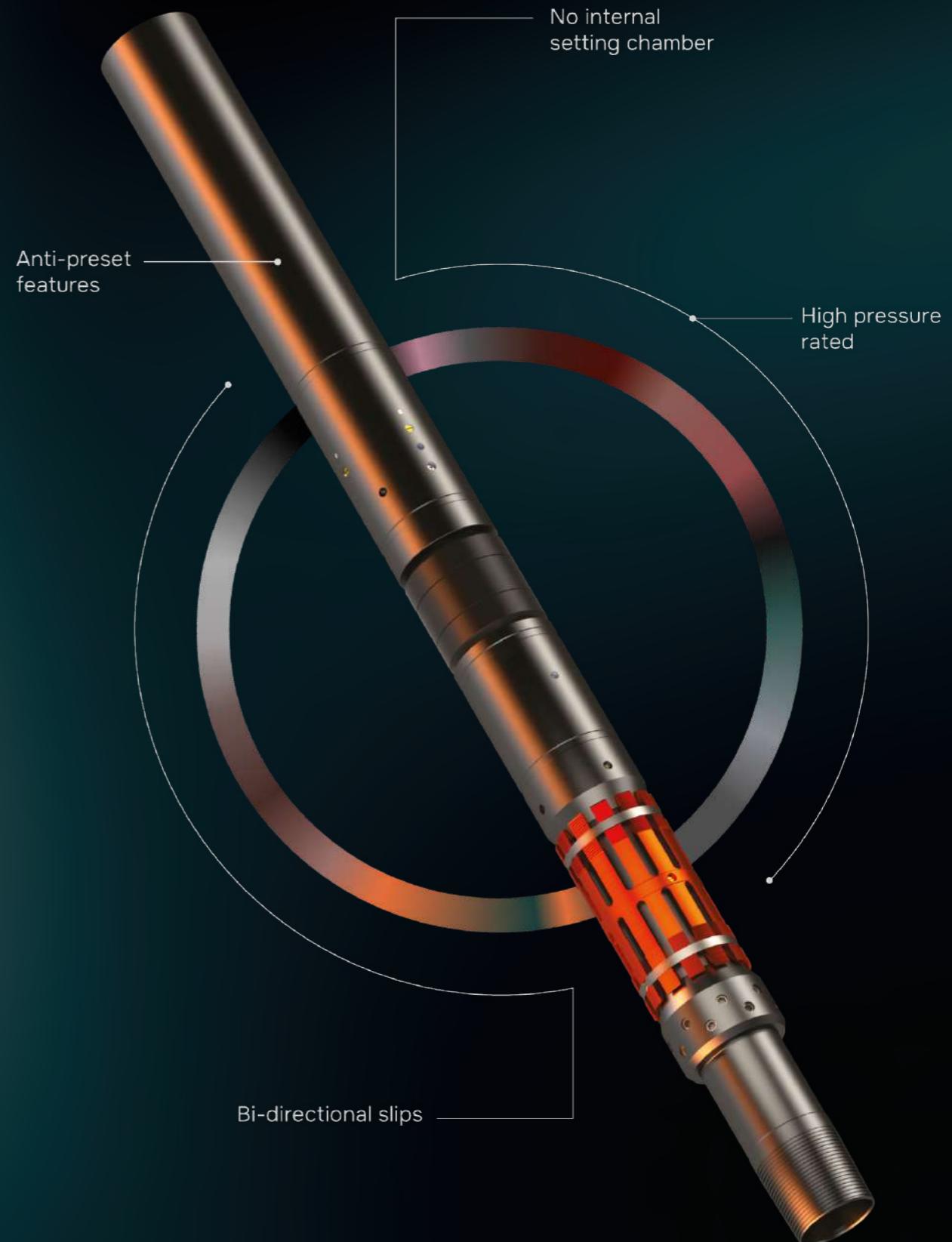
The SAPSAN Hydraulic Liner Hanger by Symoil is a versatile, non-cemented hydraulic liner hanger designed for reliability and performance in demanding downhole environments. It is deployed using the proprietary Symoil Power Running Tool Assembly, ensuring seamless operation and superior hanging capability.

The SAPSAN system features a unique barrel-slip design that delivers bi-directional pressure and load support, while its one-piece inner mandrel provides upper and inner bore sealing – eliminating the need for an internal setting chamber. This results in a simplified design with enhanced burst and collapse ratings.

Engineered for flexibility, the hanger is independent of liner thread types, weights, and grades, as it mounts directly on the outer surface of the liner pipe. The integrated packer-hanger assembly reduces the number of threaded connections, improving system integrity and reducing overall cost. No rotation is required for packer setting, making the SAPSAN suitable for both deviated and horizontal wells.

### FEATURES

- Bi-directional slip design for secure hanging and pressure containment
- Anti-preset mechanism for enhanced operational safety
- High-pressure rated for challenging well conditions
- No internal setting chamber, increasing burst and collapse strength
- Customizable PBR lengths from 1.5 ft to 20 ft



Casing size  
in - [mm]Casing Weight  
Min-Max [lbs/ft]Wall thickness  
Min-Max [mm]

5 - [127]

15 - 18

7.52 - 9.19

5.5 - [139.7]

14 - 17

6.2 - 7.72

17 - 23

7.72 - 10.54

23 - 26

10.54 - 12.1

5.75 - [146.1]

19.7 - 21.8

8.51 - 9.53

6.625 - [168.3]

20 - 24

7.32 - 8.94

24 - 28

8.94 - 10.59

28 - 32

10.59 - 12.06

7 - [177.8]

17 - 26

5.87 - 9.19

26 - 29

9.19 - 10.36

29 - 35

10.36 - 12.65

7 - [177.8]

17 - 26

5.87 - 9.19

26 - 29

9.19 - 10.36

29 - 35

10.36 - 12.65

7.625 - [193.7]

33.7 - 39

10.92 - 12.7

8.625 - [219.1]

44 - 49

12.7 - 14.15

9.625 - [244.5]

32,3 - 43,5

7,92 - 11,05

43,5 - 53,5

11,05 - 13,84

9,625 - [244,5]

43,5 - 53,5

11,05 - 13,84

13,375 - [339,7]

54,5 - 72

9,65 - 13,06

Liner Size  
in - [mm]

3.5 - [88.9]

4 - [101.6]

4 - [101.6]

4.5 - [114.3]

4.5 - [114.3]

5 - [127]

5.5 - [139.7]

7 - [177.8]

7,625 - [193,7]

9,625 - [244,5]

Hanger OD  
in - [mm]

4 - [101.6]

4.625 - [117.5]

4.625 - [117.5]

5.625 - [142.9]

5.5 - [139.7]

5.375 - [136.5]

5.95 - [151.1]

5.875 - [149.2]

5.75 - [146.1]

5.95 - [151.1]

5.875 - [149.2]

5.75 - [146.1]

6.35 - [161.3]

7.35 - [186.7]

8,5 - [215,9]

8.25 - [209.6]

8.25 - [209,6]

12 - [304,8]

Hanger ID  
in - [mm]

2,75 - [69,9]

3,35 - [85,1]

3,25 - [82,6]

3,25 - [82,6]

3,35 - [85,1]

3,95 - [100,3]

3,85 - [97,8]

3,826 - [97,2]

4 - [101,6]

4.25 - [108]

4.25 - [108]

4.125 - [104,8]

4.625 - [117,5]

4,625 - [117,5]

6.25 - [158,8]

6.25 - [158,8]

6.625 - [168,3]

8.525 - [216,5]