

# HYMEC HBS LUBRICATED BUMPER SUB



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The HBS lubricated bumper sub has been designed to cover the range of applications from fishing through to drilling and motion compensation. The design incorporates a lubricated full involute spline drive section together with simplicity of design and quality of manufacture that ensures a reliable tool suitable for the most demanding of downhole tasks.

The HBS lubricated bumper sub can be used as a fishing or drilling bumper as required.

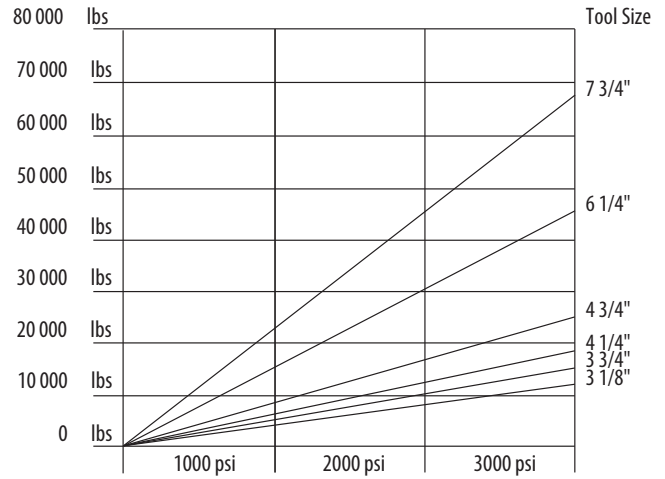
### Operation Instructions

Downhole operation of the LBS tool requires only the raising or lowering of the drill string to generate impacts. For drilling applications the placement of the tool and the available pump open force will determine the operating range.

The pump open force generated by the pressure drop across the bit can be used to absorb erratic string movement and shock from the bit.

## Pump Open Force Chart

Force created by pressure drop across the bit



## Specifications

HBS Lubricated Bumper Sub Series	31	31	37	42	47	62	77
Tool size OD (new)	3.14"	3.14"	3.77"	4.27"	4.77"	6.27"	7.77"
Bore ID	1.00"	1.50"	1.50"	1.94"	2.19"	2.19"	3.00"
Overpull Max. (Pre-jarring at Jar) lbs	56,000	36,000	66,000	78,000	105,000	210,000	305,000
Tensile Load (Max) lbs	296,480	200,100	331,680	450,080	621,810	1,112,480	1,647,360
Yield Torque (new) ft/lbs	5,880	5,880	12,010	14,840	20,300	52,420	98,100
P.O.A. sq. in.	4	3.1	5	6.2	8.2	15	22.4
Overall stroke (inch)	10.0	10.0	10.0	10.0	12.0	12.0	12.0
Max temperature F/C (standard)	275/132	275/132	275/132	275/132	275/132	275/132	275/132
Max temperature F/C (high)	450/232	450/232	450/232	450/232	450/232	450/232	450/232
Max Running Hrs Up to 275 deg F (standard)	350	350	350	350	350	350	350
Max Running Hrs Up to 450 deg F (high)	200	200	200	200	200	200	200
Length approx. m/ft	3.6/11.9	3.6/11.9	3.7/12.1	3.7/12.1	4.1/13.6	4.1/13.6	4.2/13.8

- Notes:**
1. Other sizes can be supplied on request.
  2. Longer stroke length can be supplied on request.

Sales enquiries:

**Hymec Limited**

Downhole Product Services

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