Sup-R-Jar™ Hydraulic Drilling Jar

Overview

The Sup-R-Jar® Hydraulic Drilling Jar is a double-acting hydraulic drilling jar that is capable of delivering a heavy impact when a bottom hole assembly becomes stuck. The Sup-R-Jar is designed with simplicity and quality in mind. The tool is simple to build, easy to dress, and is extremely durable. Designed to operate as an integral part of a drill string, it can withstand normal drilling conditions of torque, pump pressure, temperatures up to 300°F, and long-term use. Because the Sup-R-Jar's design is temperature self-compensated, the tool can be run in higher operating temperatures and in harsher environments for longer rotating times downhole. There is no need to circulate or cool down the Sup-R-Jar as its design allows it to maintain its temperature compensation at all times.

Because it is similar in length and diameter, and has compatible connections and slip areas, the Logan Sup-R-Jar can easily be racked as part of a stand of drill collars.

Superior Performance Capabilities

- High over-pull capacity with a rating greater than that of conventional jars of the same size

- Long free stroke

- Higher impact capability to hit harder than other jars of the same size

- Can be run in tension or compression

- Metering mechanism allows re-cocking of the jar by raising or lowering the drill string

- Design ensures that the jar will not automatically cock or fire with the pumps in normal drilling operations

Application

- Drilling & Fishing

SPECIFICATIONS			
TOOL SIZE OD in (mm)	4-3/4 (120.65)	6-1/2 (165.10)	8 (203.20)
ID in (mm)	2-1/4 (57.15)	2-3/4 (69.85)	3 (76.20)
TOOL JOINT CONNECTION *	3-1/2 IF	4-1/2 IF & XH	6-5/8 REG
MAXIMUM DETENT WORKING LOAD lbf (N)	90,000 (400,340)	200,000 (889,644)	300,000 (1,334,466)
TENSILE YIELD STRENGTH lbf (N)	452,737 (2,013,875)	916,152 (4,075,247)	1,302,363 (5,793,199)
TORSIONAL YIELD STRENGTH ft-lb (N-m)	35,744 (48,462)	76,129 (103,217)	102,056 (138,369)
TOOL WEIGHT lb (kg)	1,800 (816)	2,600 (1,179)	3,800 (1,723)
TOOL LENGTH ft (m)	31 (9.4)	33 (10.1)	34 (10.4)

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