HYDRAULIC Jar

Description

The Hydraulic Jars allow jarring of the test string to aid in the freeing of down-hole tools. The Jar provides a temporary resistance that allows the drill pipe to be stretched. When the resistance is release, the drill pipe contracts to deliver the impact and freeing force.

Pulling on the drill string at surface will allow for tubing stretch and mandrel movement upward as hydraulic fluid is restricted against the resistance valve, and the lower jar body and lower portion of the string remain fixed. Once the travel in the hydraulic chamber is used up, the Jar body will fire rapidly upwards to free the stuck zone below. The Hydraulic Jar is easily reset by putting weight on the drill string and filling up the hydraulic chamber for repeat jarring.

Hydraulic Jar Specifications

specifications

	2007AA
O.D. in [mm]	5.0 [127]
I.D. in [mm]	1.25 [32]
PRESSURE RATING psi [kPa]	5,000 [34,474]
MANDREL TORQUE ft lb	2,500
BODY JOINT TORQUE ft lb	7,000
HIGH PULL lb	50,000
TIME TO FIRE seconds	30-60
LOW PULL lbs	10,000
TIME TO FIRE minutes	2 to 5
LENGTH in [m]	114 [2.83]
MAX TEMPERATURE degF [degC]	250 [121]
MAXIMUM OPERATING LOAD lbs	80,000
ULTIMATE TENSILE STRENGTH lbf [kN]	498,000 [1,690]
CONNECTIONS	3 1/2 IF
SERVICE	H2S + C02

*These specifications are guidelines only. Refer to the equipment technical manual, or contact Northstar for more information.