Bowen™ Super II Fishing Jar with JarMax Technology

Technical Summary

The Bowen Super II fishing jar is a versatile straight-pull operated jar that allows you to control the intensity of the jarring blow by varying the applied pull load. Simple to assemble, it allows easy operation with no adjusting required before you go into the hole or after you have retrieved the fish. A restricted passage slows down the fluid flow, delaying the stroke until you have ample time to take the necessary stretch in the running string.

The straight pull-up jarring tool employs a patented combination of proven principles of hydraulics and mechanics. The one-piece mandrel design (integral top sub) enables greater torque and bending strength than other jars.

The variable impact control of the Super II fishing jar is made possible by the metering action of the cone assembly. Fluid flows from one side of the piston to the other through a metering port as pull is applied to the jar. Forced through this restricted passage, flow is slowed in a manner that delays the stroke. This gives you ample time to accumulate the necessary stretch in the running string and Bowen Jar Intensifier™ tool, when used, to strike a blow of given impact.

Another advantage of the Super II fishing jar is the ease of closing or resetting. During closing or resetting, large ports open in the piston assembly, allowing unimpeded fluid flow. Since the metering action does not occur during closing, minimal weight is required to overcome friction and close the jar.

The jar's internal chambers are sealed at both ends. Therefore, the lubricating and operating fluids cannot escape and well fluids cannot enter these chambers.

JarMax technology allows you to get the most out of your jar, without risk of damaging the tool. It includes an over-pressure release mechanism, which prevents the tool from being over-pulled. If the maximum load is exceeded during jarring, the mechanism allows excess pressure to be released past the cone and seal body. An existing standard Super II Jar can be retrofitted into an assembly with JarMax technology by replacing specific parts.

Super II Jar Benefits

- Performs reliably in rugged conditions
- Withstands high torque and bending
- Provides high impact loads to fish
- Closes and resets easily

JarMax Technology Benefits

- Eliminates possible damage due to excessive over-pull
- Allows jar to fire at maximum impact every time
- Works at all temperatures and depths
- Eliminates the need for over-pull calculations
- Allows jars to be continuously over-pulled
- Calibrated during each redress

Technical Specifications

OD	4 ¾ in.	6 ¼ in.
ID	2 ¼ in.	2 ¼ in.
Connection	3 ½ IF	4 ½ IF
Assembly Number – Standard Tool	152790	152564
Assembly Number – with JarMax Technology	507166	506248
Length in Closed Position – Standard Tool	12.57 ft	12.85 ft
Length in Closed Position – with JarMax Technology	12.90 ft	12.85 ft
Stroke	12 in.	12 in.
Pump Open Area	6.5 in^2	8.3 in^2
Field Load: Max. Pull Load (During Pull Stroke)	100,000 lbs	200,000 lbs
Lift Load: Tensile at Yield (Jar Fully Extended)	484,000 lbs	900,000 lbs
Torque at Yield	16,700 ft-lbs	36,300 ft-lbs

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