



HAILEY SPECIALTY TOOLS

Hydraulic Bi-Directional Jar

Thru-Tubing | Fishing Tools

Jar Operation

All Hailey Torque-Thru Jars are thoroughly QC inspected, mag-particle inspected, hydrostatically leak tested, and push-pull tested at approximate operating temperatures to ensure that the tool will fire within acceptable parameters downhole. Prior to use, the tool should be inspected to determine if any damage has occurred in shipment. Check all threaded connections to ensure they have not become loose. Inspect for any oil leaking from the tool. If any oil leakage is detected do not run the tool. When making up the tool string, do not tong across or above any threaded connections. Assemble the Jar in the string above the mud motor. Hailey Torque-Thru Jars will achieve maximum effectiveness when used in conjunction with Hailey Intensifiers and with appropriate weight bars.

* During the tripping operation the tool may stroke open due to any combination of forces acting on the tool, such as, BHA weight, hydrostatic weight, circulating fluid pressure, and extended reach tools. The tool can be closed without firing by slowly applying weight to tool string.

The velocity and relative impact force of the jarring blow is controlled through the amount of stretch in the tubing string and the weight of the weight bars and tubing above the Jar.

Jarring Up:

1. Pull the coil until stretch is removed and the desired amount for weight at the tool is reached. Weight measurement at surface is not necessarily what is being exerted on the Jar. The operator should use caution in applying pull load to the Jar so that the safe working load for the particular Jar is not exceeded.
2. Set the brake and wait for the Jar to fire. Due to variable well conditions or profiles, this may take from a few seconds to several minutes. These variables may include: working depth, amount of stretch in the string, down hole temperature, deviations, and mechanical condition of the hole.

If the Jar does not fire on the first pull:

- * Increase the tension in the running string if possible without exceeding the allowable working load on the Jar.
- * Ensure that the Jar is properly closed and repeat prior steps.
- * Use pump pressure combined with pull to fire Jar.

Jarring Down:

1. Push the coil until the desired amount of set-down weight at the tool is reached.
2. Set the brake and wait for the Jar to fire. Due to variable well conditions or profiles, this may take from a few seconds to several minutes. These variables may include: working depth, amount of stretch in the string, down hole temperature, deviations, and mechanical condition of the hole.

If the Jar does not fire on the first pull:

- * Apply additional set-down weight.
- * Ensure that the Jar was properly opened prior to applying weight and repeat jarring steps.
- * Shut off pump pressure after weight is set.

Hailey Jars do not have a neutral position. Jars can be ordered to up to only fire up or down upon request. However, if the operator decides that impact in only one direction is necessary, a bidirectional Jar can be cycled into the desired orientation by applying a minimal weight at a slow rate to either open or close the Jar.

Additional Corrective Procedures:

If the impacts are not as heavy as desired:

1. Be sure that the Jar is fully open or closed before setting weight.
2. Pull or push the running string faster.
3. Increase the number of weight bars installed above the Jar.
4. Install a Jar Intensifier above the weight bars.

**IF WE DON'T HAVE IT,
...WE CAN MAKE IT!**