



DRILL PIPE SAFETY JOINTS

Overview

The Drill Pipe Safety Joint is designed for the safe and dependable release from drill-ing, fishing, tubing, washover, or testing strings should they become stuck. The simple design of the Drill Pipe Safety Joint has no release ring, which allows for quick disen-gagement procedures of the tool.

Construction

The Drill Pipe Safety Joint comes in a variety of popular sizes for drill pipe strings. We will also design and manufacture safety joints to meet a customer's specific need. The Drill Pipe Safety Joint is made up of a box section and a pin section. Each Safety Joint is designed to withstand internal and external pressures through the use of O-ring seals above and below the threads.

The O.D. and the I.D. of the Logan Drill Pipe Safety Joint match the standard O.D. and I.D. of the tool joint connection that is requested.

Operation

The coarse thread design of the Drill Pipe Safety Joint is resistant to wedging or loos-ening of the tool during operation. The Safety Joint's design allows for the transmission of torque in the left-hand or right-hand direction.

To Disengage the Safety Joint in the Hole

1. Pick up on the drill string until 500 to 1,000 lbs. remains on the Safety Joint. If too much weight is left sitting on the Safety Joint, there is a possibility that damage could occur to the shoulder of the box section when the tool disengages.
2. Rotate the string to the left until approxi-mately 20% to 40% of the tool's right-hand make-up torque is applied.
3. Pick up on the string slowly while rotating to the left to unscrew the Safety Joint. The coarse threads will lift the pipe approximately 1/2" to 1-1/2" (depending on the size of the Safety Joint) for each revolution of the string.
4. Care should be taken to keep a little weight on the Safety Joint as the tool is unscrewed as recommended in Step 1. The operator will be able to see a weight decrease as the Safety Joint separates.

To Reengage the Safety Joint in the Hole

1. Lower the string into the hole until the Pin Section contacts the Box Section.
2. Apply approximately 1,000 lbs. of weight and rotate the string slowly to the right. An increase in torque will indicate that the Safety Joint has reengaged.

When ordering, please specify:

- (1) Name and number of assembly or part
- (2) Connections, if other than standard
- (3) Name and number of any desired spares
- (4) O.D., if other than standard

Pin Section

Large O-Ring
2 required

Small O-Ring
2 required

Box Section

