Schlumberger

Safety Joint

Quickly releases from packer if stuck downhole

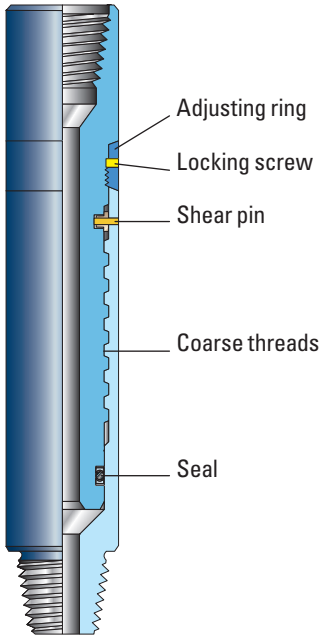
APPLICATIONS

- Downhole tests
- Tubing-conveyed perforating
- Any application involving mechanical packers

ADVANTAGES

- Quickly releases from a downhole string should the assembly below the safety joint become stuck
- Enables the recovery of tools and downhole gauges above the safety joint when the string is stuck
- Allows the retrieval of the lower (stuck) portion by either fishing over the OD of the box section or by reengaging the pin section into the box section
- Prevents right-hand torque from acting on the shear pin
- Easily disengages and reengages with large, coarse thread design that carries the string load

The safety joint (SJB) allows quick release of the test string if the packer, or anything below the packer, becomes stuck. Typically positioned on top of the packer and made up to the same torque as the other tools in the string, the SJB is disengaged by left-hand torque. The breakout torque is controlled by shear pins. An adjusting ring prevents right-hand torque from acting upon the shear pin. The joint can be reengaged by applying weight and rotating slowly to the right. Knurled, beveled ends in the adjusting ring provide high breakout torque during a fishing operation.



Safety joint.

Specifications

Model	SJB-F	SJB-G
Max. OD, in [mm]	5 [127]	3.125 [79]
Tool ID, in [mm]	2.25 [57]	1.125 [29]
Differential pressure rating, psi [MPa]	15,000 [103]	15,000 [103]
Temperature rating, degF [degC]	425 [218]	425 [218]
Length, ft [m]	1.7 [0.5]	2.5 [0.8]
Service (NACE International MR-0175)	H_2S, acid	H_2S, acid
Tensile strength at min. yield, lbf [kN]	340,000 [1,512]	160,000 [712]
Breakout torque, lbf.ft [N.m]	2,300 ± 200 [3,118 ± 271]	950 ± 100 [1,288 ± 136]
Connection	3½-in IF or PH-6	2⅜-in Reg. or PH-6