



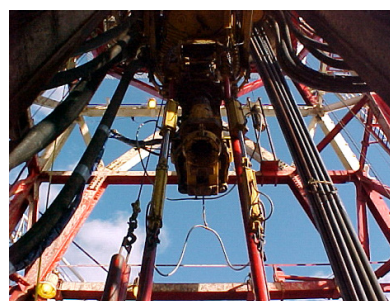
# *Single-Joint Compensator*

The Weatherford single-joint compensator (SJC) is an innovative, load-compensating device used to eliminate set-down weight from threaded connectors during makeup and thereby to reduce the risk of thread galling and cross-threading. The SJC is also used to help the stabber align pipe vertically when the Weatherford Stabberless® system is not used.

The SJC is rigged up between the rig traveling block and the single-joint elevator. It uses pressure-compensated cylinders that are attached to the top of the bails on each side. Slings are connected from the cylinders to a bearing swivel below the elevator. From the swivel, a two-part sling is connected to a single-joint elevator. After the initial setting of the SJC system pressures, no further adjustment is required during the job.

If a joint requires breakout, the SJC keeps the weight off the threads and safely lifts the pin out of the box, reducing the chance of the threads hanging.

If required, the SJC can be configured to use a visual indicator at the driller's console to show that the compensator cylinders have reached the optimal position.



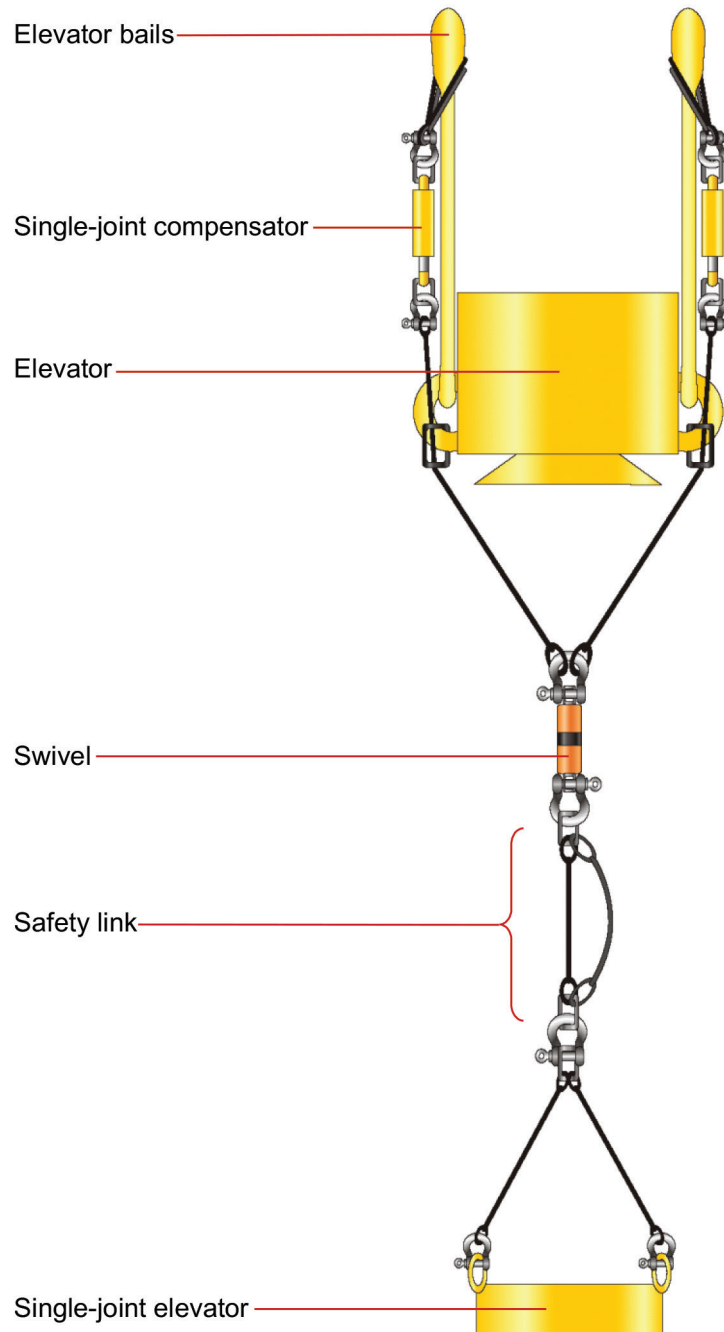
## *Applications*

- Minimizing or eliminating the potential of thread damage when running or pulling carbon steel or corrosion-resistant alloy tubulars
- Minimizing or eliminating the potential for thread damage when running or pulling casing with premium connections

## *Features, Advantages, and Benefits*

- The SJC permits controlled towering of the joint during stabbing and makeup, thus reducing the potential for damage to premium connections.
- An optional visual indicator at the driller's console indicates the optimal cylinder position for greater operational precision.
- The SJC reduces high contact stresses during stabbing, makeup, and breakout that could otherwise lead to thread galling and costly repairs.
- Remote operation enhances rig-floor safety.
- Availability in a range of tubing and casing sizes enhances versatility.

## *Single-Joint Compensator*



Rig-up of the SJC between the traveling block and the single-joint elevator