Double Knuckle Joint

Augments jarring performance in deviated wells

Applications

- Deviated wells

Features and Benefits

- Minimal angular movement eliminates over-flex
- Maximizes load transfer between jar and larger lower toolstring component when flexed
- Robust design to accommodate mechanical jarring impact
- Limited 5° axis shift ensures continual linear platform throughout the toolstring

Tool Description

The Weatherford limited articulation double knuckle joint is designed with mechanical jarring in mind. Industry standard knuckle joints are typically manufactured with a 10-to-15° deflection angle taken from the center line.

The double knuckle joints are limited to 5°. An axis shift of 5° ensures a continual linear platform throughout the toolstring with sufficient flexibility to allow toolstrings to negotiate restrictions and upsets within the well while still transmitting mechanical forces effectively.

The double knuckle joint, when used in combination with the high deviation Roller Bogie® jar and Roller Bogie system, can augment jarring performance in deviated wells.

The tool is available with all industry standard connections and is also available as a single knuckle.

Weatherford®

Double Knuckle Joint

Specifications

Mechanical Specifications

Size	Weight	Length
1.250 in. (31.75 mm)	2 lb (0.91 kg)	17 in. (432 mm)
1.500 in. (38.10 mm)	7 lb (3.18 kg)	16 in. (406 mm)
1.750 in. (44.45 mm)	10 lb (4.54 kg)	17 in. (432 mm)
1.875 in. (47.62 mm)	11 lb (4.99 kg)	16 in. (406 mm)
2.125 in. (53.98 mm)	15 lb (6.80 kg)	17 in. (432 mm)
2.500 in (63.50 mm)	23 lb (10.43 kg)	20 in. (508 mm)

Standard, Sour or Severe Service available

Connections available to suit customer specifications