

Production Knuckle Joint (PKJ)

The Production Knuckle Joint (PKJ) is used for tool positioning, rigid length reduction for easier manoeuvrability and better weight distribution in highly deviated or horizontal wells.

Description

The Production Knuckle Joint has a universal ball joint with a limited degree of movement, which allows a maximum of 10 degrees deflection in any direction. The joint has an electrical connection through a pressure proof stainless steel coil with metal-to-metal seals. This allows the tool to be used at any position within the toolstring.

Used individually, the knuckle joint reduces the rigid length of a toolstring to facilitate deployment through twisted or buckled pipe, or to negotiate severe dog-legs; used as a pair, the knuckle joints decentralise the CCL for improved collar logs particularly in larger pipe and, in deviated or horizontal wells, de-couple the weight of running tools from that part of the tool string requiring centralisation.

Features

- To be used in situations where flexible toolstrings are required.
- To offset the CCL for improved collar logs.
- To minimise the centralised weight in highly deviated or horizontal wells.
- Normally used in conjunction with Production Roller Centralisers.
- Simultaneous use with other PL tools.

Specification

Model	PKJ013	PKJ027	PKJ030
Temperature rating	392°F (200°C)		
Pressure rating	15000psi (103.4MPa)		
Tool diameter	1 ¹¹ / ₁₆ in (43mm)	1 ³ / ₈ in (35mm)	2 ¹ / ₈ in (54mm)
Tool length	6.5in (165mm)		
Tool weight	3.7lbs (1.7kg)	2.5lbs (1.2kg)	4.4lbs (2.0kg)
Maximum tension	15400lbs (6985kg)	10000lbs (4536kg)	15400lbs (6985kg)
Maximum torque	250lbf.ft (339Nm)	130lbf.ft (176Nm)	250lbf.ft (339Nm)
Knuckle movement	10°		
Voltage rating	300V		
Materials	Corrosion resistant throughout		



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