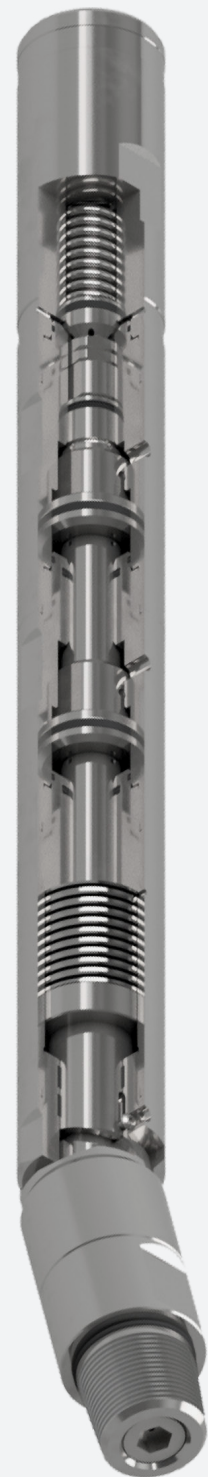


Hydraulic Knuckle Joint with Adjustable Bleed Valve



- Up to 15° bend
- Critical part of mles
- Adjustable bleed valve

DESCRIPTION

The Pragma Coiled Tubing Hydraulic Knuckle Joint with Adjustable Bleed Port is a coiled tubing service tool used to provide a controlled deviation within the coiled tubing tool string. The knuckle can offer a maximum deviation of 15°. The hydraulically activated bend in the Pragma CT Hydraulic Knuckle Joint can support CT logging, Stimulation activities or help with cleanout runs, for example, to direct jetting nozzles close to the casing wall.

A primary application for the Hydraulic knuckle Joint is in conjunction with the Pragma Hydraulic Indexing Tool and if required the Velocity Check Circulation Valve as part of a lateral re-entry system.

The tool features a bleed port which opens when the knuckle joint reaches maximum deviation. An adjustment screw has been added to the bleed port to make assembly easier and ensure the bleed port opens at the required deviation.

FEATURES & BENEFITS

- Flow activated deviation of the toolstring up to 15°.
- Bleed port indicator.
- Used as part of the Pragma Multi-Lateral Entry System to enter multiple laterals in a single CT trip.
- Can be used for applications requiring an inclined BHA including fishing, jetting tunnelling, cleanouts and stimulation
- Fully sealed through bore
- Internal low friction seals.

Part Number	Outside Diameter	Inside Diameter	Operating Pressure	Length	Thread
CKJHA169AC08	1.687"	0.25"	2000 psi	26.5"	1.00 AMMT
CKJHA212AC09	2.125"	0.39"	3000 psi	28.5"	1.50 AMMT
CKJHA288AC23	2.875"	0.75"	3000 psi	32.0"	2.38 PAC

We offer optional equipment, alternative sizes, materials and thread connections.

Please contact us for more information.

