

KNUCKLE JOINT — FULL ROTATION

APPLICATION

- Jetting operations
- Clean out runs
- Debris circulation
- Nitrogen lifting
- Spotting operations
- Well Stimulation operations

FEATURES

- Short, compact design
- Large through bore
- Full 360° rotation
- 15° axial deflection (30° included)
- Easily redressed

ADDITIONAL INFORMATION

- Common sizes are shown, other sizes available on request.
- Tools are manufactured from mild steel as standard. Other materials are available on request.
- Bespoke designs available to suit job specific applications.

The WellEnTech Knuckle Joint provides flexibility within a tool string while providing a large thru' bore and pressure integrity. The Knuckle is designed to provide a full 360° rotation and an angular deflection along the tools axis of 15° (30° included).

TECHNICAL SPECIFICATION

OD (Inches)	Length (Inches)	ID (Inches)	Connections	Tensile Strength (lbs)	Service	Part No.
1.688	6.50	0.75	1"AMMT	38,900	Std.	146-1688-A002
				29,000	H2S	146-1688-A001
1.750	7.00	0.75	1-1/4"AMMT	38,900	Std.	146-1750-A002
				29,000	H2S	146-1750-A001
1.750	7.00	0.25 *	1-1/4"AMMT	83,100	Std.	146-1750-A012
				60,100	H2S	146-1750-A011
2.125	8.00	1.00	1-1/2"AMMT	64,600	Std.	146-2125-A002
				46,800	H2S	146-2125-A001
2.875	10.25	1.38	2-3/8"PAC	125,800	Std.	146-2875-A002
				91,500	H2S	146-2875-A001

OPERATION

The Knuckle joint is ideal for operations where tight dog legs are encountered or flexibility is required in a tool string. The precision turned sphere provides a smooth, full rotation and a retained seal provides pressure integrity. It is made up to the tool string like any other cross over or connection.

Refer to data sheet DS-145a for Torque thru' version.

