

KNUCKLE JOINT — TORQUE THRU'

APPLICATION

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

FEATURES

- Short, compact design
- Large through bore
- Rotationally locked
- 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 an angular deflection along the tools axis of 15° (30° included) while simultaneously being rotationally locked, making it ideal for operations where torque transmission is required.

TECHNICAL SPECIFICATION

OD (Inches)	Length (Inches)	ID (Inches)	Connections	Tensile Strength (lbs)	Service	Part No.
1.688	6.50	0.75	1" AMMT	28,900	H2S	145-1688-A001
				39,800	Std.	145-1688-A002
1.750	7.00	0.75	1-1/4" AMMT	28,900	H2S	145-1750-A001
				39,800	Std.	145-1750-A002
2.125	8.00	1.00	1-1/2" AMMT	46,800	H2S	145-2125-A001
				64,300	Std.	145-2125-A002
2.875	10.25	1.38	2-3/8" PAC	72,900	H2S	145-2875-A001
				100,200	Std.	145-2875-A002

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, angular deflection and a retained seal provides pressure integrity. It is made up to the tool string like any other cross over or connection. The Ball Bearings provide the means of torque transmission, a full rotation version of this tool is also available, refer to data sheet DS-146a for full details.

