

Product Overview

The **Torque Thru Knuckle Joint**, when incorporated between the jars and manipulation tool, provides additional flexibility in the tool string. It is used when **rotation of the tool string is not required**. Keys in the top sub and housing prevent rotation while still allowing full angular movement.

Key Features

- Provides **additional flexibility** in the tool string.
- Designed for applications where **tool-string rotation is not required**.
- **Keys in the top sub and housing prevent rotation**.
- Allows **full angular movement** despite the rotational lock.
- Provides up to **15° angular deviations**.

Technical Data

Max. O.D. (in)	Min. I.D. (in)	Tensile Strength – Standard Service	Make-Up Length (in)	Internal Ball Clearance (in)	Angle of Deviation	Min. Torque (FT/LBS)
1.687	0.500	40,000 LBS	10.461	7/16	15°	500
1.750	0.500	60,000 LBS	10.461	7/16	15°	500
2.125	0.750	50,000 LBS	10.669	11/16	15°	600
2.250	0.750	55,000 LBS	10.669	11/16	15°	600
2.375	0.750	60,000 LBS	11.115	11/16	15°	600
3.125	1.000	100,000 LBS	12.100	15/16	15°	750

