

EXPANSION JOINT

DESCRIPTION

The Expansion Joint is a downhole completion component installed in the tubing string to absorb axial movement caused by thermal expansion, contraction, or pressure fluctuations within the wellbore. By compensating for these dimensional changes, it prevents the transfer of excessive stress to the tubing and packer system, protecting against mechanical damage and fatigue.

Expansion joints are particularly beneficial in high-temperature, high-pressure (HPHT) wells or long-string completions, where significant tubing movement is expected during production, injection, or well shut-in cycles. Their robust design ensures reliable operation and long-term integrity under dynamic downhole conditions.

FEATURES

- Compensates for tubing movement due to thermal and pressure variations
- Protects packers and other completion components from excessive axial loads
- Increases reliability and service life of the tubing string
- Suitable for both deviated and horizontal wells
- Available in a range of sizes and pressure ratings to match various completion designs

Tubing Size in - [mm]	Max OD in - [mm]	Min ID in - [mm]	Pressure Rating Psi - [Bar]
2,375 - [60,3]	3 - [76,2]	1,995 - [50,67]	10000 - [689]
2,875 - [73]	3,5 - [88,9]	2,441 - [62]	10000 - [689]
3,5 - [88,9]	4,25 - [108]	2,992 - [76]	10000 - [689]
4,5 - [114,3]	5,25 - [133]	3,92 - [99,6]	10000 - [689]
5 - [127]	5,75 - [146]	4,276 - [108,6]	10000 - [689]
5,5 - [139,7]	6,25 - [159]	4,892 - [124,3]	5000 - [345]
7 - [177,8]	7,75 - [197]	6,276 - [159,4]	5000 - [345]

