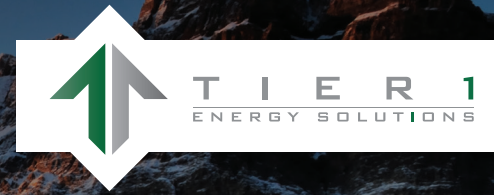


# EXPANSION JOINT SPLINED/NON-SPLINED



## THERMAL EQUIPMENT

The Tier 1 thermal rated Expansion Joint provides tubular movement throughout multiple high-temperature and pressure related cycles.

This expansion joint comes in a non-splined version that allows for free rotation at the tool. This eliminates the transmission of torque through the tool or permits the release of residual torque at the tool.

The Splined Expansion Joint is rotationally-locked throughout the entire stroke length to enable torque transmission through the tool. This can be utilized to assist during installation or setting and unsetting of other down-hole equipment.

### CURRENT SIZES

- ⇒ 88.9mm (3-1/2")
- ⇒ 114.3mm (4-1/2")
- ⇒ 139.7mm (5-1/2")
- ⇒ 177.8mm (7")

### STANDARD OFFERING

- ⇒ L-80
- ⇒ P-110
- ⇒ 343°C (650°F) rated

### OPTIONS

- ⇒ Stroke length
- ⇒ Premium connections
- ⇒ Non-thermal rated seals
- ⇒ CRA materials
- ⇒ Additional sizes available upon request

### FEATURES & BENEFITS

- ⇒ High performance thermal seals providing longevity of integrity
- ⇒ Splined or non-splined giving flexibility to meet requirements of application
- ⇒ Customized stroke length to match installation design requirements

### APPLICATIONS

- ⇒ Production
- ⇒ Injection
- ⇒ Non-cemented
- ⇒ Vertical / Deviated / Horizontal
- ⇒ Tubing strings
- ⇒ Scab liners
- ⇒ Steam and hydrocarbon wells

