

## MODEL E EXPANSION JOINT

### PRODUCT 20-180

The **TechWest Model E Expansion Joint** is a swivel joint type Expansion Joint which will turn freely until fully extended or compressed. The E Expansion Joint is normally ran in conjunction with Permanent or Retrievable Production Packers.

Full extension or compression engages a clutch which allows torque to be transmitted through the joint. Incorporation of a locking pin will allow the Expansion Joint to be locked in the fully compressed position while running or retrieving the joint.

Available for Thermal applications (see Product 20-182).

### FEATURES

- Torque is transmitted from either the fully open or fully closed positions.
- Standard 10 foot stroke, and available in different lengths.
- Ran pinned fully closed and locked.
- Manufactured standard in accordance with NACE specification MR0175 for standard H<sub>2</sub>S Service and with standard A.P.I. tubing connections.
- Available in a variety steels, V-Seal materials, and premium threads.

### SPECIFICATIONS

20-182 SPECIFICATIONS								
Size		OD		ID		Product No.	Max # shear screws	Standard Connection
in	mm	in	mm	in	mm			
2 3/8	60.3	3.70	94.0	2.00	50.6	20-182-2010	4	2 3/8 EUE
2 7/8	73.0	4.50	114.3	2.44	62.0	20-182-2510	4	2 7/8 EUE
3 1/2	88.9	5.50	139.7	3.00	76.2	20-182-3010	4	3 1/2 EUE
4 1/2	114.3	6.65	168.9	3.94	100.0	20-182-4510	4	4 1/2 EUE

### OPERATION

Run to depth and space out according to the anticipated expansion/contraction required to always keep the packer in the neutral position. Set the packer with a full joint. Apply compression to shear the shear pins. Apply ¼ turn right hand rotation at the tool to release the 'J' pins from the 'J' pin slots. The Expansion Joint will now be able to expand. Pick up, unscrew the landing joint. Attach and land the dog nut.

