

## TS Series

### Adjustable Union

The RMSpumptoools Adjustable Union is a mechanical telescoping device designed to allow fine adjustments to be made to lengths within the tubing string. It is operated simply by rotating a 'Jacking Collar' to move the Mandrel inwards or outwards thus changing the length of the assembly.

It is constructed with an outer Housing, having a seal bore, a telescoping threaded Mandrel, Lock Collar and Jacking Collar. Two Anti-Rotation Keys set within the Housing engage the Mandrel to prevent rotation between the upper and lower assemblies. The Housing incorporates 6 slots for the two Anti-Rotation Keys creating an orientation mechanism with 30 degree maximum misalignment.

The Adjustable Union is simply operated by rotating the Jacking Collar to move the Mandrel to the desired position then locking the Jacking Collar. Premium thread connections are cut either end, normally box up and pin down, however the Adjustable Union can be installed either way up assuming correct mating connections.

It is available for standard or sour service and various stroke length, although 24" is standard. It is also available in various tubing sizes and connections including Vam, API 8rd amongst others.

#### Adjustable Union Size Options

| Tubing Size | Weight Range  | Min Bore | Max OD |
|-------------|---------------|----------|--------|
| 2-3/8"      | 4.6#          | 1.930"   | 3.250" |
| 2-7/8"      | 6.4 - 9.35#   | 2.380"   | 3.975" |
| 3-1/2"      | 9.2 - 15.5#   | 2.920"   | 4.975" |
| 4-1/2"      | 12.6# - 15.1# | 3.920"   | 6.000" |
| 5-1/2"      | 15.5# - 26#   | 4.680"   | 7.500" |
| 7"          | 20# - 35#     | 6.305"   | 9.250" |

#### Key Performance Features

- Simple Jacking Mechanism
- Anti-rotation Keys
- +/- 30 degree Orientation
- Simple Construction
- Only One Set of Seals

