

MODEL TI TENSION PACKER

PRODUCT 20-304

The **Model Ti Tension Packer** is a compact, economical, rugged, resettable packer that is run on jointed or coiled tubing. The packer is set and released with axial (upwards and downwards) motion, making it ideal for coil tubing use, or when rotating conventional tubing is impractical. The indexing Auto-J allows for reseatability without surfacing the tool, making it ideal for multi-zone treatments or fracturing.

The packer features an adjustable shear Safety Release System allowing for packer retrieval in the event normal unsetting fails. The Shear Release System is located below the packing element using standard factory set shear screws.

A *High-Flow* variation of the Model Ti Packer is available with slots machined into the Drag body and Element Cone to increase the cross-sectional flow area past the Packer. This design feature reduces frictional losses when pumping or flowing past the anchor, allowing for higher flow rates.

FEATURES

- Sets/Unsets with only axial (up-down) motion.
- Resettable Auto-J for service/completion work.
- Can run upside down in compression or without element as an anchor.
- Elastomer and metallurgical options available for hostile environments.
- Compact

OPERATION

The packer operates with a continuous Auto-J indexing mechanism. The Packer is ran to the desired depth starting in either the *run-in* (or *pre-set*) position. Pickup engages the slips and energizes the element. Tension must be maintained in order to hold pack-off. If the packer does not set, cycle the tubing downward, then picking up will set the packer as above. To release the packer, lower the tubing to unset and then freely move up or down. The packer may be reset again by the initial procedure. If unable to normally unset, pull tension exceeding the shear force of the pins installed.



| SPECIFICATION GUIDE - T Packer Series (20-302, 304, 306, 307) | | | | | | | | | | | | | | | | |
|---|----------------|--------|-------|-------|--------|-------|---------------------|-------|------------|---------------------|---------------------|-------|-------|-------|-----------|---------------------|
| CASING | | | | | PACKER | | | | | | | | | | | |
| OD | WEIGHT | | ID | | OD | | MIN ID | | Connection | Product No | | | | | | |
| | lb / ft | kg / m | in | mm | in | mm | in | mm | | | | | | | | |
| 2 3/8 50.8 | 4.7 | 7.0 | 1.995 | 50.7 | 1.81 | 46.0 | 0.378 | 9.6 | 1.000 NPT | 20-302/4/5/6/7-0200 | | | | | | |
| 2 7/8 73 | 6.5 | 9.7 | 2.441 | 62.0 | 2.20 | 55.9 | 0.750 | 19.1 | 1.500 NPT | 20-302/4/5/6/7-0250 | | | | | | |
| | 6.4 | 9.5 | 2.441 | 62.0 | | | | | | | | | | | | |
| 3 1/2 88.9 | 10.2 | 15.2 | 2.992 | 76.0 | 2.81 | 71.4 | 1.380 | 35.05 | 1.500 NPT | 20-302/4/5/6/7-0350 | | | | | | |
| | 7.7 | 11.5 | 3.068 | 77.9 | | | | | | | | | | | | |
| 4 1/2 114.3 | 15.1 | 22.6 | 3.826 | 97.2 | 3.50 | 88.9 | 1.610 | 40.89 | 1.900 EUE | 20-302/4/5/6/7-0440 | | | | | | |
| | 13.5 | 20.1 | 3.920 | 99.6 | | | | | | | | | | | | |
| 4 1/2 114.3 | 11.6 | 17.3 | 4.000 | 101.6 | 3.80 | 96.5 | 1.940 | 49.1 | 2 3/8 EUE | 20-302/4/5/6/7-0450 | | | | | | |
| | 9.5 | 14.1 | 4.090 | 103.9 | | | | | | | | | | | | |
| | 26 | 38.7 | 4.548 | 115.5 | | | | | | | 4.41 | 111.9 | 2.441 | 62.00 | 2 7/8 EUE | 20-302/4/5/6/7-0530 |
| | 23 | 34.2 | 4.670 | 118.6 | | | | | | | | | | | | |
| 5 1/2 139.7 | 23 | 34.2 | 4.670 | 118.6 | 4.45 | 113.0 | 1.995 | 50.67 | 2 3/8 EUE | 20-302/4/5/6/7-0540 | | | | | | |
| | 23 | 34.2 | 4.670 | 118.6 | 4.45 | 113.0 | 2.441 | 62.00 | 2 7/8 EUE | 20-302/4/5/6/7-0550 | | | | | | |
| | 20 | 29.8 | 4.778 | 121.4 | 4.50 | 114.3 | | | | 20-302/4/5/6/7-0560 | | | | | | |
| | 17 | 25.3 | 4.892 | 124.3 | 4.625 | 117.3 | | | | 20-302/4/5/6/7-0580 | | | | | | |
| | 13 | 19.3 | 5.044 | 128.1 | | | | | | | | | | | | |
| | 5 3/4 146.0 | 24.2 | 36.0 | 4.910 | 124.7 | 4.728 | 120.1 | 2.441 | 62.00 | 2 7/8 EUE | 20-302/4/5/6/7-0600 | | | | | |
| 22.5 | | 33.5 | 4.990 | 126.7 | | | | | | | | | | | | |
| 19.5 | | 29.0 | 5.090 | 129.3 | 4.823 | 122.5 | 20-302/4/5/6/7-0610 | | | | | | | | | |
| 17 | | 25.3 | 5.190 | 131.8 | | | | | | | | | | | | |
| 6 5/8 168.3 | 32 | 47.6 | 5.675 | 144.1 | 5.44 | 138.2 | 2.441 | 62.00 | 2 7/8 EUE | 20-302/4/5/6/7-0650 | | | | | | |
| | 28 | 41.7 | 5.791 | 147.1 | | | | | | | | | | | | |
| | 24 | 35.7 | 5.921 | 150.4 | 5.750 | 146.1 | | | | 20-302/4/5/6/7-0700 | | | | | | |
| | 20 | 29.8 | 6.049 | 153.6 | | | | | | | | | | | | |
| 7 177.8 | 32 | 47.6 | 6.940 | 154.8 | 5.750 | 146.1 | 2.441 | 62.00 | 2 7/8 EUE | 20-302/4/5/6/7-0700 | | | | | | |
| | 29 | 43.2 | 6.184 | 157.1 | | | | | | | | | | | | |
| | 26 | 38.7 | 6.276 | 159.4 | 6.00 | 152.4 | | | | 20-302/4/5/6/7-0710 | | | | | | |
| | 17 | 25.3 | 6.538 | 166.1 | | | | | | | | | | | | |
| 7 5/8 193.7 | 39 | 58.0 | 6.625 | 168.3 | 6.45 | 163.8 | 2.441 | 62.84 | 2 7/8 EUE | 20-302/4/5/6/7-0750 | | | | | | |
| | 33.7 | 50.2 | 6.765 | 171.3 | | | | | | | | | | | | |
| | 29.7 | 44.2 | 6.875 | 174.6 | 6.67 | 169.5 | | | | 20-302/4/5/6/7-0760 | | | | | | |
| | 24 | 35.7 | 7.025 | 178.4 | | | | | | | | | | | | |
| 9 5/8 244.4 | 53.5 | 79.6 | 8.535 | 216.8 | 8.25 | 209.6 | 4.000 | 101.6 | 4 1/2 EUE | 20-302/4/5/6/7-0950 | | | | | | |
| | 47 | 69.9 | 8.681 | 220.5 | | | | | | | | | | | | |
| | 43.5 | 64.7 | 8.755 | 222.4 | 8.50 | 215.9 | | | | 20-302/4/5/6/7-0960 | | | | | | |
| | 32.3 | 48.1 | 9.001 | 228.6 | | | | | | | | | | | | |