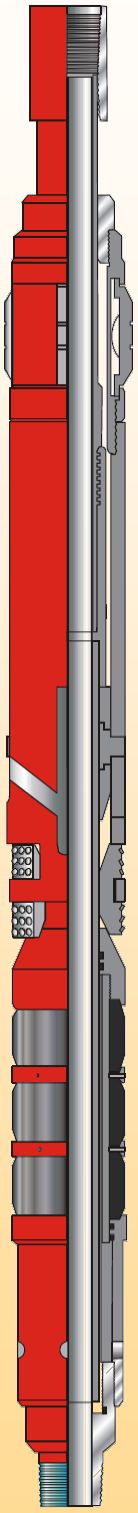
32-A Tension Service Tool



The Pro Tool 32-A Tension Service Tool is a heavy duty, tension set, retrievable service tool that is suitable for testing, fracturing and cementing.

The emergency release system uses a right hand rotation of the tubing string which relaxes the packing element system and allows the slips to retract from the lower cone. This allows the packer to be removed from the well.

The unloader is run in tandem with the 32-A service tool and provides a equalized by-pass to minimize the swabbing effect on the packing elements while the packer is being run or retrieved.

Features, Advantages and Benefits

- Holds pressure from above or below
- Full opening for tubing ID compatibility
- Bi-directional slips to secure service tool in place
- Right-hand rotational safety release
- **TO SET**: The 32-A service tool is run with the SC unloader above the tool, allowing equalization of the fluid levels while the running the tool to setting depth. To set the tool, pick up on the tubing string and rotate ¼ turn to the left (or right, if right-hand set) at the tool. Slack-off tubing weight while holding torque will allow the tool to take weight. Packing elements are not compressed and unloader is in the open position and circulations between tubing and annulus is possible. Tension is pulled to compress the packing element system and closes the unloader isolating tubing from annulus.
- **TO RELEASE**: Slack-off tubing weight which will result in setdown weight on 32-A and open the unloader and establish communication between tubing and annulus. Rotate tubing string ¼ turn to the right (or left if right-hand set) at the tool and pick up on tubing while holding torque. The service tool will jay into the running slot and can be moved, reset or retrieved from the well. The unloader should remain in the open position while packer is free.
- **EMERGENCY RELEASE**: If service tool will not release using the normal procedure, right-hand rotation will release the safety joint. This will relax the packing elements and retract the lips from the cone allowing the service tool to be pulled from the well. The service tool must be pulled from the well and redressed before trying to reset service tool.

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