

techTAC®

Slimline Tubing Anchor Catchers

1/4 Turn Tubing Anchor /Catcher

The 1/4 Turn Tubing Anchor/Catcher is a rugged and compact 1/4 turn set & released anchor/catcher designed for horizontal well applications and works great in vertical and deviated well bores. It holds your tubing stationary during pumping and catches your tubing if a tubing failure occurs. It also has emergency shear release and a Left-hand back off coupling.

The 1/4 Turn Tubing Anchor/Catcher is specially designed for rod pumping operations but can also be used to anchor or position a string of tubing at depth. Bidirectional cone and slip design holds force from upward or downward movement.

When properly set to overcome buckling and breathing the 1/4 Turn Set Tubing Anchor/Catcher eliminates tubing movement that causes excessive rod, tubing, and pump wear and loss of pumping efficiency. Tubing is protected from impact of parted rods and cyclic stresses caused by pump pounding and breathing. Once the Tubing Anchor Catcher is set, there is no travel of the upper and lower cones to cause impact loading between anchoring and catching position.

When the 1/4 Turn Set Tubing Anchor/Catcher is set with proper tension to overcome both breathing and buckling, operating costs are reduced by reducing excessive rod, tubing and casing wear and the number of resulting pulling jobs. Elimination of breathing and buckling also increases production by lengthening the effective stroke of the pump, thereby increasing volumetric efficiency.



SPECIFICATION GUIDE

CASING O.D. WEIGHT (IN.) (Lbs. /FT.)	CASING I.D. RANGE(IN.) MIN. MAX.	MAX O.D. OF TOOL (IN.)	MAX ANCHOR BORE (IN.)	THREAD CONNECTION BOX UP/ PIN DOWN
5 1/2" 13-23	4.670" 5.004"	4.50"	2.41"	2.875 EUE*
5 1/2" 26# * *	4.41" drift	4.395"	2.41"	2.875 EUE*

*Available with 2 3/8" Connections

**Special Order Only

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Product Features:

- Stainless Steel drag springs – shortened for higher tension
- Left-hand back off coupling
- ¼ Turn set & release
- Easy adjustable shear emergency release
- Available with Carbide slips

Product Advantages:

- Anchors tubing
- Reduce operating costs
- Less pulling unit jobs
- No threads to seize up
- No cone sleeve to seize up in lower cone
- Sets easily in horizontal wells
- Positive cone control
- Increases pump efficiency
- Eliminates need for tubing swivel
- No body nut to malfunction
- Cap that will not unscrew itself
- Works with PC pumps
- No guess work setting slips
- Easy to redress

Pre run in:

Check bore of Anchor/Catcher verses O.D. of pump if pump is to be run thru Anchor/catcher.

Do not use Drag Springs as carrying handle, Damage to drag springs may occur.

Consideration of pumping condition should be made to determine number of shear pins to be used.

When installing Anchor/Catcher in tubing string hold backup wrench on the top coupling do not torque thru anchor/catcher. Wrench only on bottom sub when making up to tubing below anchor.

Hold backup wrench going in hole to prevent premature setting of Anchor/Catcher which could cause damage to slips or possible shearing of safety release.

Running and Setting Procedure:

Before running in hole make sure Anchor/Catcher is in the released position- J-Pin should be in the right hand short J-Slot. At the desired setting depth rotate tubing to the right 1/4 turn at the tool with hand tongs only. Do not rotate with tubing tongs. While maintaining right hand torque pick-up on tubing, this will rotate j-pin into setting slot, continue to pull tension into the anchor until a minimum of 10,000 lbs. above string weight is pulled. Release tension and set-down full tubing weight to insure proper setting of slips. At this point pull tension into anchor and set well head slips with a minimum of 10,000 lbs. above string weight.

Releasing Procedure:

Set down slight compression on to anchor/catcher, Hold left-hand torque on tool and pick-up on tubing. Pick-up far enough to release, set back down to assure complete retraction of slips. Remove anchor from the well.

Emergency Release:

If it is impossible to release Anchor in this manner, an upstrain greater than the total shear strength of the shear pins plus tubing weight will shear the Shear pins and the Anchor can then be retrieved from well.

In the event the first safety does not release anchor, a second safety joint can be broken by rotating tubing to the right 8-10 rounds thus releasing tubing from anchor.