

Slimhole Tubing Anchor Catcher

Anchor for flexible tubing placement

APPLICATIONS

- Any well with production tubing
- Anchors tubing during rod lift operation
- Catches tubing in the event of a tubing failure

BENEFITS

- Improves pump efficiency
- Reduces solids accumulation in the anchor
- Enhances gas flow up the tubing or casing annulus

FEATURES

- Ability to set anchor in or below perforations
- Smaller OD
- Tapered connections
- Adjustable shear rating
- Slip protection drag blocks
- Carbide and wicker slips available

In contrast to a standard anchor, the Don-Nan slim hole tubing anchor can be deployed at any point in the well in relation to the perforations. The improved design also minimizes solids buildup in the anchor, and the smaller OD improves gas flow past the anchor.

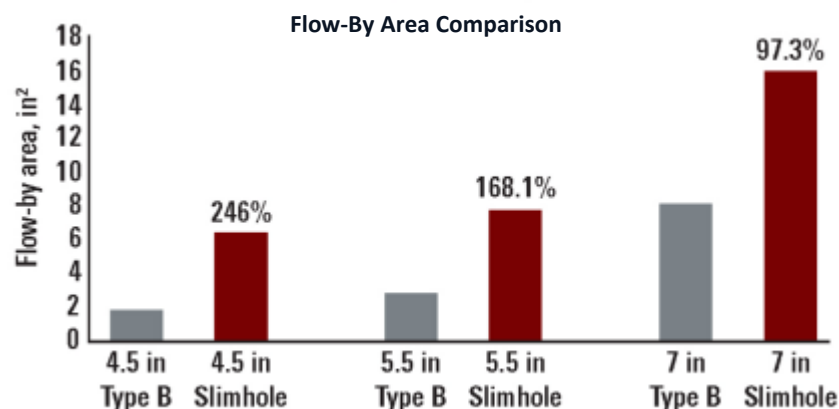
Placement flexibility

The ability to run the Don-Nan slim hole tubing anchor below perforations enables operators to pump from the point in the well that maximizes oil production and minimizes gas interference. The tubing can be anchored at the deepest point in the string, eliminating the need for tubing below the anchor. This placement reduces downhole assembly wear and tubing fatigue caused by tubing movement. In addition, tapered connections prevent anchor seizure by diverting solids that might otherwise accumulate in the anchor.

Alternatively, if the Don-Nan slimhole tubing anchor is placed above perforations, its design provides the benefit of increasing the width of the annulus between the OD of the anchor and the ID of the casing. The smaller OD of the Don-Nan slim hole tubing anchor also increases gas flow past the anchor into the casing or tubing annulus, thereby reducing gas interference in the pump.



Slimhole TAC



The flow-by area of the Don-Nan slimhole tubing anchor is significantly increased when compared with the Type B tubing anchor, resulting in enhanced rod lift system efficiency.

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Don-Nan Slimhole Tubing Anchor

| | | | |
|--|------------------|----------------------------------|-----------------|
| Casing OD, in [mm] | 4.5 [114.3] | 5.5 [139.7] | 7 [117.8] |
| Casing Weight lb/ft | 9.5-13.5 lb/ft | 13-20 lb/ft | 17-38 lb/ft |
| Tubing size, in [mm] | 2.375 [60.325] | 2.375 [60.325] 2.875 [73.025] | 2.875 [73.025] |
| Max. tool OD, in [mm] | 3.75 [95.25] | 4.615 [117.221] | 5.75 [146.05] |
| Tool ID, in [mm] | 1 [25.4] | 1.937 [49.199] | 2.405 [61.087] |
| Cage OD, in [mm] | 2.875 [73.025] | 3.75 [95.25] | 4.5 [114.3] |
| Annular clearance [†] , in [mm] | 0.5885 [14.9479] | 0.571 [14.5034] | 0.933 [23.6982] |
| Slimhole annulus increase, in [mm] | 0.4375 [11.1125] | 0.375 [9.525] | 0.5 [12.7] |

[†]Annular clearance calculated for the following casings: 4.5 in, 10 lbm/ft, 4.052-in ID; 5.5 in, 17 lbm/ft, 4.892-in ID; 7 in, 23 lbm/ft, 6.366-in ID

BUILT TO LAST

Made to Perform

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