

Slimhole Tubing Anchor

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 slimhole 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.

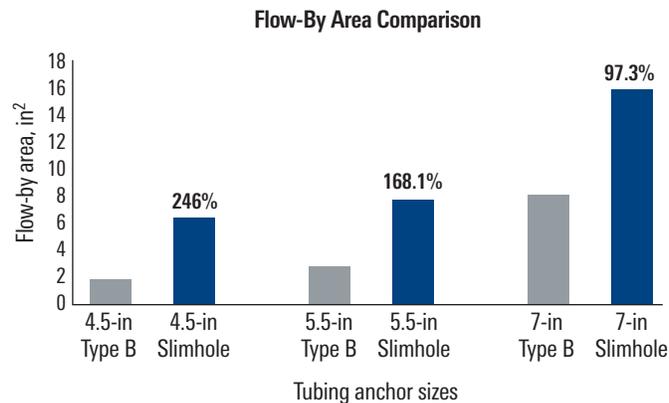
Placement flexibility

The ability to run the slimhole 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 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 slimhole tubing anchor also increases gas flow past the anchor into the casing or tubing annulus, thereby reducing gas interference in the pump.



The slimhole tubing anchor has a smaller OD than the standard anchor, with large slips and slip protectors. Beveled couplings prevent sand from getting inside the tool.



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

Slimhole Tubing Anchor Specifications

Casing OD, in [mm]	4.5 [114.3]	5.5 [139.7]	7 [117.8]
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]
Annulus increase from Type B, in [mm]	0.4375 [11.1125]	0.375 [9.525]	0.5 [12.7]

[†] Annular clearance calculated for the following casings: 4.5 in, 10.5 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