

# KUDU XF Anchor

Xtreme Flow Area Torque Anchor



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# KUDU XF ANCHOR

This centralized torque anchor is a versatile tool that anchors the tubing string against tubing backoff from Progressing Cavity Pump (PCP) rotation forces. Anchoring the downhole assembly also minimizes stator oscillation, which may cause pump efficiency losses.

The KUDU XF Anchor is adjustable, enabling concentric and offset configurations, which allow coil tubing past the anchor. Due to this flexibility, the XF Anchor is preferable in heavy oil and high sand concentrations. In horizontal applications the static slips ensure casing standoff thereby minimizing intake plugging. The slim design of the XF Anchor results in a large cross-sectional flow area for maximum production and minimum pressure drop across the tool.

KUDU XF Anchor benefits:

- Fits all casing weights
- Keeps intake ports / slots clear
- Coilable with 3/4" coil in all configurations
- Static slips protect cable or capillary tube
- High bypass area for gas and sand
- Inconel springs for H<sub>2</sub>S and CO<sub>2</sub> resistance

## Operation

The KUDU XF Anchor is threaded onto the tubing string above or below the PCP. The anchor is run to the setting depth and torque is applied to the tubing string in a right hand direction. The anchor is released by rotating the tubing to the left or a straight pull up. The anchor may be reset, move or pulled from the well.

## Running Instructions

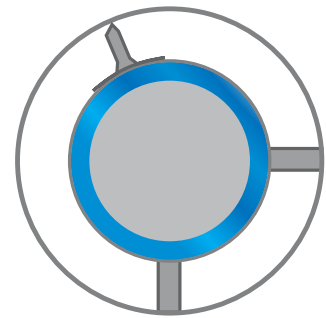
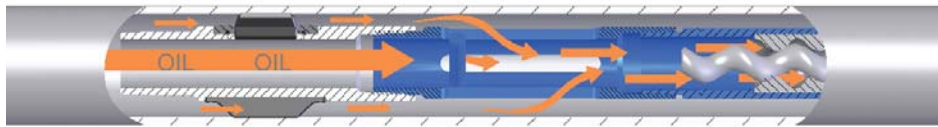
- Run the XF Anchor above or below the PCP.
- Consider installing a coupling on the pin end to eliminate potential thread damage to the exposed threads, if the XF Anchor is on the bottom of the string.
- Use back-ups or tongs only on the box area of the tool, never on the slips.
- Always follow API recommended connection make-up and torque guidelines.
- Prevent unnecessary wear on slips by using back-ups on the tubing string during connection make-up.
- During installation and removal run the anchor and pump slowly through BOP's.
- After setting the anchor in the casing string, familiarize the crew with the setting and unsetting procedures.

## Important

- Rotate the tubing to the right and apply 750 to 2000 ft / lbs of torque (can be applied by using tongs or two men and a pipe wrench).
- Anchor make-up torque is the same as tubing connections.
- Hold torque on the tubing string and simultaneously land the tubing hanger.

## Caution

Tubing should rotate to the left when tubing hanger is released.



## KUDU XF Anchor Specifications

Type	Tool O.D. in / mm	Tool I.D. in / mm	Overall Length in / mm	Connection (EUE)	Setting Range (I.D.)	
					lbs/ft (in)	ks/m (mm)
*4 1/2"	3.06/77.7	2.00/50.8	16.5/419	2 3/8	9.5 (4.090) – 13.5 (3.92)	14.1 (103.9) – 20.1 (99.6)
5 1/2"	3.60/91.4	2.441/62	16.5/419	2 7/8	13 (5.044) – 26 (4.548)	19.3 (128.1) – 38.7 (115.5)
5 3/4"	3.60/91.4	2.441/62	16.5/419	2 7/8	17 (5.190) – 25.2 (4.890)	25.3 (131.8) – 37.5 (124.2)
6 5/8"	4.40/111.8	3.00/76.2	17.5/445	2 7/8 / 3 1/2	12 (6.287) – 32 (5.675)	17.9 (159.7) – 47.6 (144.1)
7.0"	4.40/111.8	3.00/76.2	17.5/445	2 7/8 / 3 1/2	17 (6.538) – 29 (6.184)	25.3 (166.1) – 43.2 (157.1)
8 5/8"	4.50/114.3	3.00/76.2	22.0/559	3 1/2 / 4 1/2	20 (8.191) – 24 (8.090)	29.8 (208.1) – 35.7 (205.5)
9 5/8"	4.50/114.3	3.00/76.2	22.0/559	3 1/2 / 4 1/2	40 (8.835)	59.5 (224.4)

\* Pending



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