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PCM MOINEAU OILFIELD

Tubing Anchor

When the rotor rotates clockwise, its friction against the stator tends to make the tubing rotate also clockwise, i.e. in a direction which tends to make it back off. This friction is accompanied by the vibrations produced by the eccentric movement of the rotor, vibrations which are all the more significant as the pump is set up deeper. The combination of both effects creates a risk of back off.

The tubing anchor, also called torque anchor eliminates this risk. It is connected below the stator to the stop bushing.

The unique patented "Dynamic Torque Anchor" design allows for easy running and retrieval in a variety of downhole conditions including deep wells, horizontal wells, heavy oil wells.

The Dynamic Torque Anchor allows for full bore configuration, maximum bypass in the annulus and its function is not affected by the presence of produced sand.

It uses wedge shaped anchoring blocks which bite into the casing wall when right hand torque is generated in the tubing string. These anchoring blocks are spring loaded so that transfer of torque to the casing is immediate (clockwise) and the tubing string may be freely rotated to the left (counter-clockwise). Due to the original design of the anchoring blocks, only a simple engaging and disengaging procedure is required.

The running procedure of the Dynamic Torque Anchor is as simple as the design itself. It can be run in and out of the well freely as shown in figure 1a. When the anchor has reached the required depth, the application of approximately 300 ft.-lbs. right-hand torque, will securely engage the anchoring blocks to the casing wall, as illustrated in figure 1b. The setting torque may now be locked in and the pump operation started. To disengage the anchor, simply stop the pump operation and relax the initial setting torque.



Courtesy of Gris Gun Ltd

Common sizes:

casing	tubing connections
5"	2 7/8"
5 1/2"	2 7/8"
5 3/4"	2 7/8"
6"	2 7/8"
6 5/8"	2 7/8"
7"	3 1/2"
7 5/8"	3 1/2"
8 5/8"	3 1/2"
9 5/8"	3 1/2"

