



Excalibre Downhole Tools Ltd.

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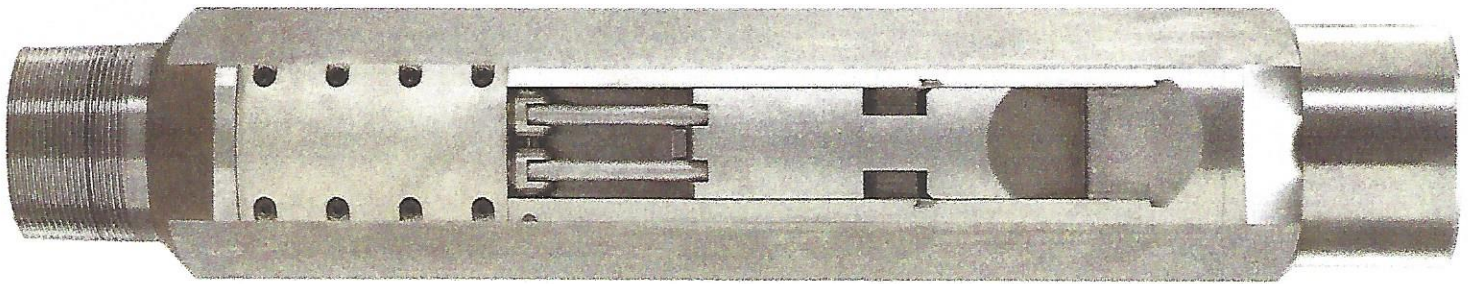
of its kind

Greatly  
Reduced

stress on production string

100%

field success rate in  
eliminating broken tubing



*Hydraulically energized for minimum tubing wear and maximum performance.*

Designed specifically for progressive cavity pumps (PC Pump), the *PCPStabilizer™* leverages its robust design to further reduce harsh eccentric pump motion with ease. Attaching simply to the top of the PC pump, the hydraulically energized Stabilizer is used in conjunction with our *TorqStopper™* to firmly hold the pump in place, reducing the potential for excessive and costly tubing failure.

The innovative design of the *PCPStabilizer™* relies on hydraulic pressure generated by the pump itself to move the pump to the low side of the casing bore, securing it firmly in place thereby eliminating all movement of the pump and tubing string. The only true stabilizer tool specifically designed for PC pumps, the *PCPStabilizer™* offers the potential to significantly reduce operational downtime and costly work over's, while bringing innovation and proven results to your operations.

### Case Study

The *PCPStabilizer™* has proven successful under a variety of common operational environments as demonstrated with one of our first clients in Northern Saskatchewan. Prior to installing the *PCPStabilizer™*, and faced with significant pump vibration, this customer experience pump and tubing failures that required intervention every three to four months. Now, nine years later, our customer has confirmed that the *PCPStabilizer™* has performed perfectly without a single breakdown, and has prevented any further production tubing wear and shear-offs in this challenging well.

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### PCPStabilizer™ User Instructions

The *PCPStabilizer™* is installed directly above the pump. Since the sliding dog on the stabilizer must be aligned with the door on the *TorqStopper™*, both of these tools must be installed by hand, on the pump, on the ground (prior to being moved to the service rig floor for installation into the well bore).

#### Recommended Installation Procedure

1. Having first liberally applied thread compound (recommend high pressure thread compound as specified in API Bulletin 5A2 on Thread Compounds) to the entire internal and external threaded areas, orient the *PCPStabilizer™* with the pin end toward the pump and then hand tighten to the pump stator.
2. As the components are torqued to the recommended make-up torque (Table 1 provides torque specification references) ensure that the *PCPStabilizer™* sliding dog and the *TorqStopper™* door end up with the same angular alignment such that when both tools are engaged down hole they will force the pump to the same side of the casing as shown in Figure 1.
3. Run to the desired depth.
4. Complete *TorqStopper™* setting procedure and ensure that the dognut is installed and landed.
5. Install remaining equipment (flow tee, drive system etc.)
6. The *PCPStabilizer™* is set automatically with hydrostatic pressure created in the fluid column as the motor drive that runs the PC pump is engaged.

#### Release Procedure

1. The *PCPStabilizer™* is automatically released as the fluid column is dissipated through the pump when the drive system is shutdown (fluid column is equalized between the tubing and casing)
2. Remove pump drive system and related equipment
3. Pick up on the dognut
4. Simultaneously lift the tubing string about 1 inch (to retract stabilizer dog) and rotate tubing to the left (CCW) until tubing preload is released, then rotate a further 1/2 turn (CCW) to release the *TorqStopper™*
5. Pull up on the tubing as required

#### ATTENTION!

The *PCPStabilizer™* is designed for use with the *TorqStopper™* torque anchor only. This is due to the fact that the *PCPStabilizer™* is designed to move the pump and tubing to the lower side of the well bore in conjunction with the *TorqStopper™* which achieves the same objective (as opposed to other tools that attempt to hold the pump/tubing in the center of the bore). Use of the *PCPStabilizer™* with any other torque anchor will VOID the Stabilizer warranty.

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PCPStabilizer™ (Figure 1)

