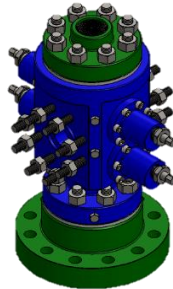


## 5K BOP Operational Instructions



**Actuating the closing and opening rams:** When opening or closing rams manually, it is recommended a 3/4" 6pt. quality impact socket be used on the hex shaped portion of the feed screw. The rams do not require a lot of torque to get a complete seal.

**NOTE:** NOT recommended is the use of a pipe wrench that could damage the smooth portion of the feed screw.

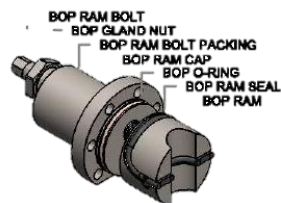
**Turns required to close rams:** For the 2-9/16" -5K double ram BOPs it takes approximately 16 turns on each screw to close the rams. The number of turns given here is specific to the 2.9/16" -5K double ram BOP with 2" LPO.

It is ALWAYS recommended that rams are adjusted alternating even ½ to full turns per side. The reopening of rams should fall under same procedure

**NOTE:** The number of turns is not affected by the polish rod size or style of ram as the rams are all the same length and must close face-to-face to seal. However, the number of turns to close can be affected by the BOP model as they don't all have the same face-to-face dimension.

**Maximum torque required to close rams:** Since the rams are essentially pressure balanced it does not require a lot of torque to get a complete seal. **20 ft.-lbs.** is sufficient for us to do the in-house 5000 psi ram test and adequately seal for pressure. As bore pressure below the rams increases the rams are automatically pushed together even tighter.

**NOTE:** We would not recommend exceeding **50 ft.-lbs.** as there is simply no reason to go that high



**BOP RAM  
SUB-ASSEMBLY**

**Ram Sub-Assembly installation/replacement:** Make up end cap bolts to a torque of 110 ft-lb.

**CAUTION** – Never apply more than **150 ft.-lbs.** to these bolts.