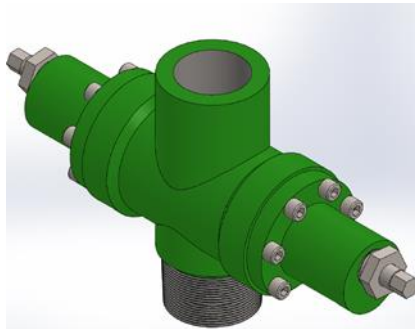


3K Single Ram BOP Operational Instructions



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.

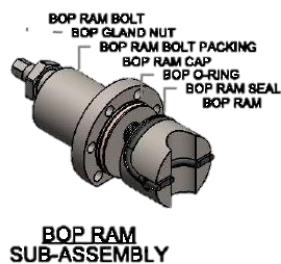
Turns required to close rams: For the 3K Single Ram BOPs built with the Revision B Cap Assemblies, it takes approximately 18 turns on each screw to close the rams. The approximate distance from edge of cap to end of bolt is 2.60"

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.

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 3000 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



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.