

Locking/Unlocking Procedures For Manual Lock Blowout Preventers

To Lock-

1. Hydraulically close rams.
2. Remove hydraulic pressure to B.O.P. by bleeding off accumulator system completely or closing in accumulator bottle manifold, then bleeding off accumulator pressure. Selector valve can remain in closed position.
3. Turn locking shaft clockwise until it stops, avoid over tightening (Ratchet or speed wrench is sufficient).
4. Apply 1500 PSI (10200 KPA) closing hydraulic pressure and rotate locking shaft clockwise another 1/4"-1/2" turn, again avoid over tightening.
5. Closing pressure can now be removed.

To Unlock-

*** Prior to unlocking, bleed off well bore pressure if possible. ***

1. Apply 1500 PSI (10200 KPA) hydraulic pressure to close rams.
2. Turn locking shaft counter-clockwise 1/4"-1/2" turn (Ratchet or speed wrench is sufficient).
3. Bleed off hydraulic pressure to rams as explained previous under locking procedure, with selector valve in the OPEN position.
4. Turn locking shaft counter-clockwise until shaft stops. If increased resistance is encountered, stop turning as high unlocking torque may damage locking/ram shafts (Ratchet or speed wrench is sufficient).
5. Opening pressure may now be applied.

NOTE: If well bore pressure cannot be bled-off, keep closing pressure applied to rams and continue turning counter-clockwise. If increased resistance is encountered, stop turning as high unlocking torque may damage locking/ram shafts.

Do not apply opening or closing pressure to preventer which has been partially unlocked, or while in the process of being unlocked, as damage to locking/ram shafts may result.

Locking and unlocking manual lock preventers must follow specific procedures in order to avoid galling and seizure of locking/ram shaft.