

ABSTRACT

FAST CLOSING WELL CHOKE

A well choke has a quick closure device quickly moving the choke element to a closed position. The closure device mounts between an actuator and a choke. The actuator has a stepper motor and gear train for incrementally moving an actuator rod and a choke element linearly. The quick closure has a hydraulic cylinder that will move the entire actuator, including the actuator rod, toward the choke, when actuated.

FIGURE 1