



hydraulic operating system which is to be a closed system. (2) Accumulators with a precharge or nitrogen charge shall be sufficient to close all the pressure-operated devices simultaneously within seconds after the pump has stopped. (3) The changing pumps shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressure-operated devices simultaneously within seconds after the pump has stopped. (4) The remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume at least percent of the original. (5) When requested, on demand, the pump shall be able to operate at a flow rate of gpm or there shall be additional pumps operated by separate power and equal in performance capabilities.

The closing manifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. A pressure reducer and regulator must be provided for operating the Hydflit preventer. When required, a second pressure reducer shall be available to limit operating fluid pressures to non preventers. A pressure reducer and regulator must be provided for operating the Hydflit preventer. When required, a second pressure reducer shall be available to limit operating fluid pressures to non preventers. Gulf Legion No. 38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke manifold, choke flow line, relief line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line, relief line, and choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold. If deemed necessary, walkways and stairways shall be erected in and around the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valves and relief line valves connected to the drilling spool and all ram type preventers must be equipped with item extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handles.

***To include derrick floor mounted controls.**

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