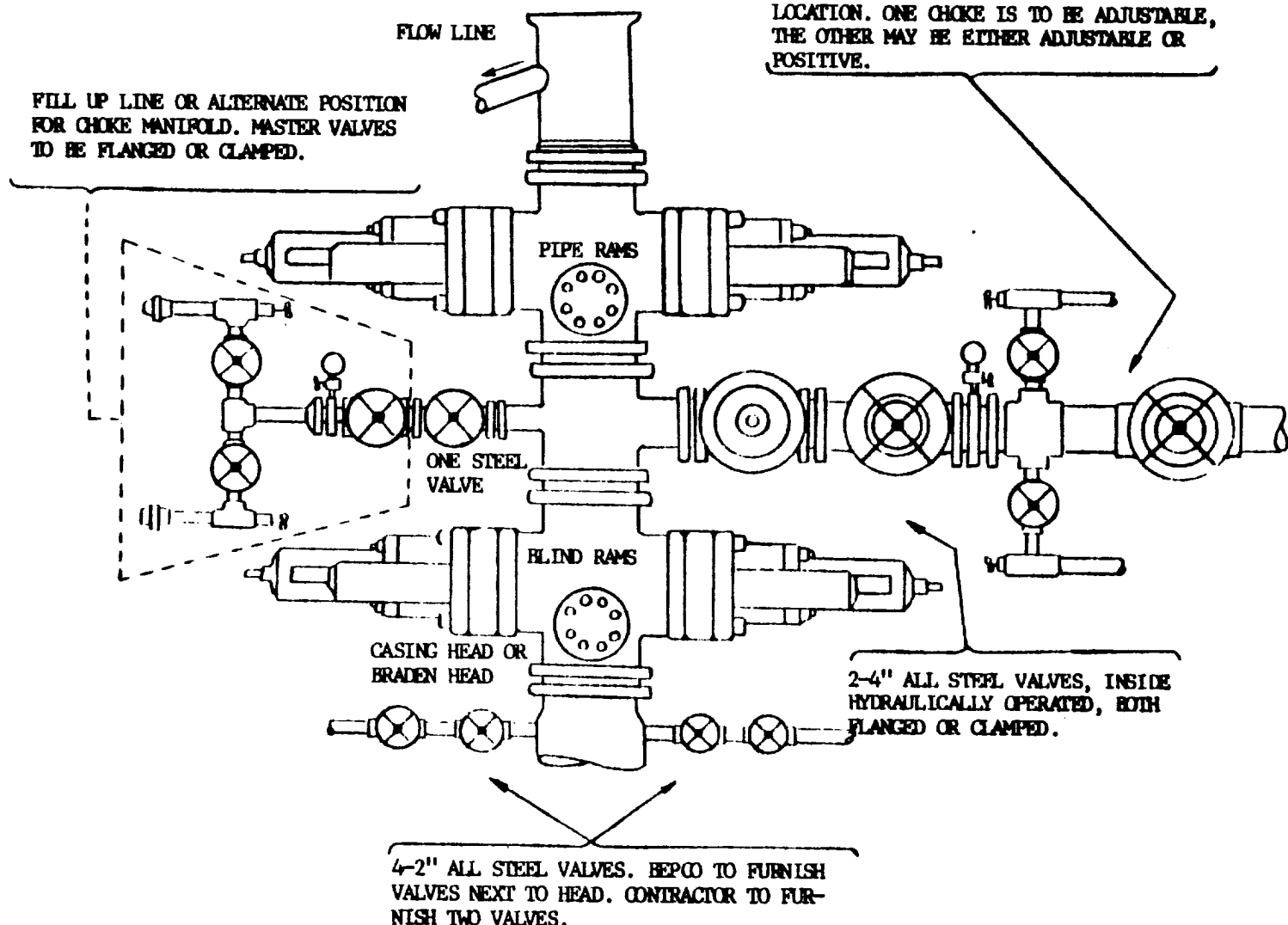


CHOKE MANIFOLD TO HAVE AT LEAST ONE 2" VALVE TO CONTROL EACH CHOKE AND ONE 4" VALVE TO CONTROL CONTINUATION OF THE 4" LINE. IF LOCATED REMOTELY FROM WELL HEAD, ANOTHER MASTER VALVE SHOULD BE INSTALLED AT THE REMOTE LOCATION. ONE CHOKE IS TO BE ADJUSTABLE, THE OTHER MAY BE EITHER ADJUSTABLE OR POSITIVE.



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. Conditions may be met by either (1) an annular blowout preventer on top and blind rams below with a choke spool between them, (2) Pipe rams on top and blind rams below with a choke spool between them, (3) A dual blowout preventer with pipe rams on top and blind rams below with a side outlet between the rams at least four inches diameter.
- B. Openings between rams to be flanged, studded or clamped.
- C. All connections from operating manifold to preventers to be all steel hose or tube a minimum of one inch in diameter.
- D. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate (close, open, and re-close) the preventers.
- E. All connections to and from preventers to have a pressure rating equivalent to that of the BOPs.
- F. Manual controls to be installed before drilling cement plug.
- G. Kelly cock to be installed on kelly.
- H. Inside blowout preventer to be available on rig floor.