

**D. CLASS II-B BLOWOUT PREVENTER STACK:**

The diagram illustrates a wellhead assembly. At the top is a wellhead structure with a central vertical pipe and two horizontal side pipes. Below this is a component labeled "Annular Preventer or Pipe Rams". This is followed by a "Drilling Spool", which is a central vertical pipe with two horizontal flanges on either side. Below the spool are "Blind Rams", represented by a thick horizontal bar. At the bottom is the "Tubing or Casing Head", which is a central vertical pipe with two horizontal flanges on either side.

The Class II-B preventer stack is designed for drilling or workover operations. It is composed of a single hydraulically operated annular preventer on top, then a drilling spool, and a single blind ram preventer on bottom. In an alternate configuration, a single pipe ram preventer may be substituted for the annular preventer. The choke and kill lines are installed onto the drilling spool and must have a minimum internal diameter of 2". An emergency kill line may be installed on the wellhead. As the maximum anticipated surface pressure of this stack is less than 2000 psi, screwed connections may be used. All components must be of steel construction. The Class II-B blowout preventer stack is shown to the left in Figure 11J.3.

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