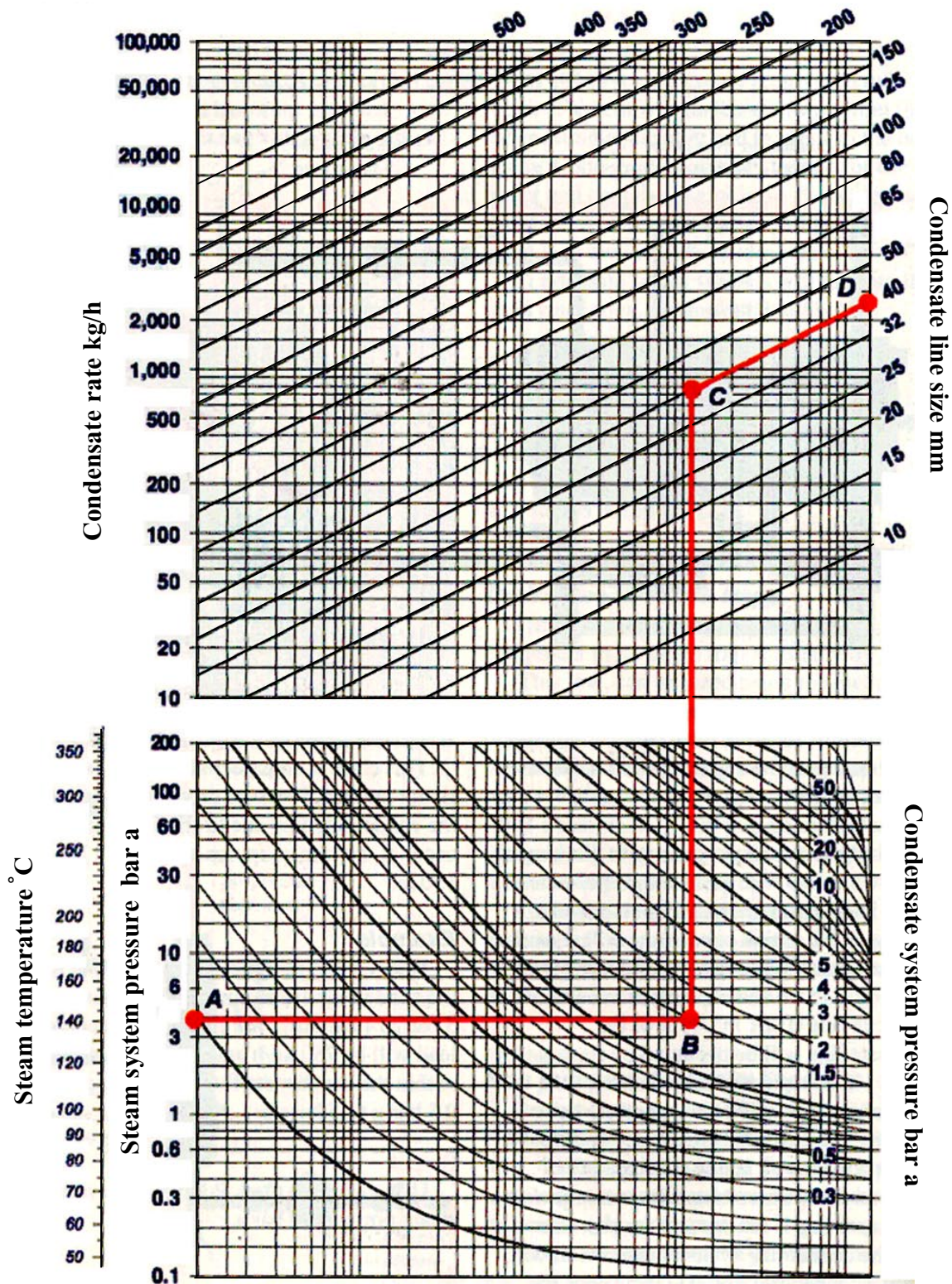


Table 5 : Condensate main pipe sizing



Example

Select a non pumped condensate line to carry the condensate from a process operating at 3 bar g (4 bar abs). The maximum condensate load will be 750 kg/h and the back pressure within the condensate line is estimated to be 0.5 bar g (1.5 bar abs).

Step 1 : Using Table 5, mark Point A, the system steam pressure in bar a.

Step 2 : Draw a line from Point A to Point B, the condensate system pressure in bar a.

Step 3 : Draw a line from Point B to Point C, the condensate load in kg/h, shown on the left scale of the top section of the chart.

Step 4 : Extend the line from Point C to Point D on the condensate line size scale.

Step 5 : Read off the required condensate line size from the scale. In this example a 40mm NB pipe will be required.