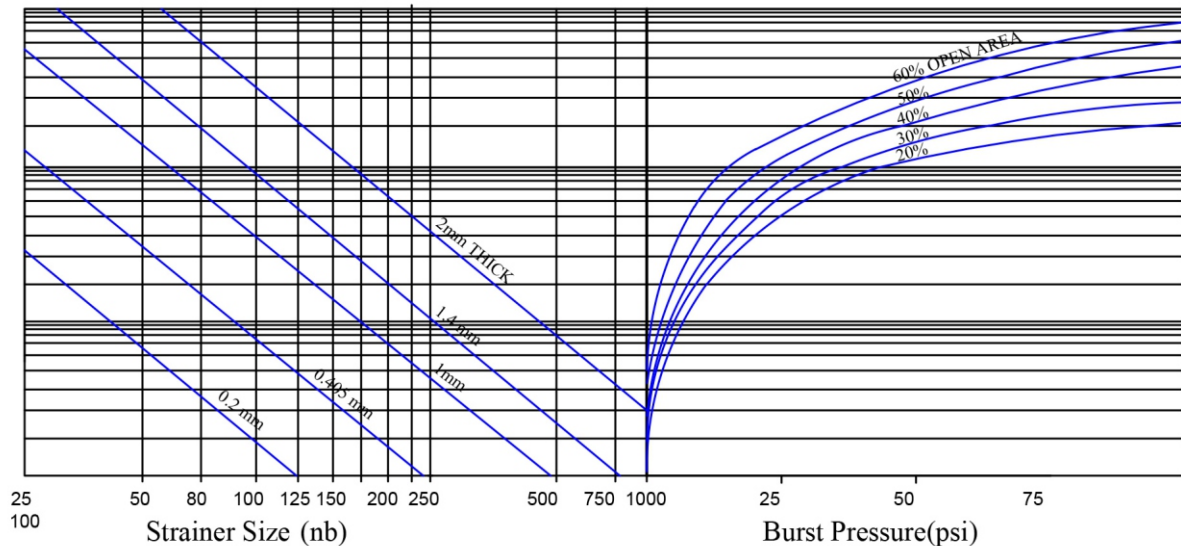


To find the burst pressure strainer size is located and drawn to the respective thickness as straight line and a horizontal line is plotted to the open area and the respective open area is identified for the vertical line towards bottom is Burst Pressure.



Burst Pressure

$$(P_b) = 3.333 \sigma \times i^2$$

Where,

σ - Allowable Stress of perforated sheet

$$i = t/d$$

t - Thickness of Perforated sheet

d - Diameter of hole

Example: Basket Strainer of 400 NB size with 4.8 mm hole dia 3 mm thick having 50% opening area of screen perforation. Finding the burst pressure.

Having the values given the burst pressure for Basket Strainer is calculated

$$P_b = 21 \text{ psi}$$