PRESSURE

Thrust :

Thrust & Pressure :

Thrust = Force = weight (SI unit – newton N)

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Pressure = thrust on unit area (SI unit – N/m^2 or pascal (Pa))
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Pressure depends on :

- 1. Force the more the force applied , *larger* is the pressure
- 2. Area the more the area is , the lesser is the pressure

Unit of Pressure :

SI Unit - Pascal (Pa)

 $1 Pa = 1 N/m^2$

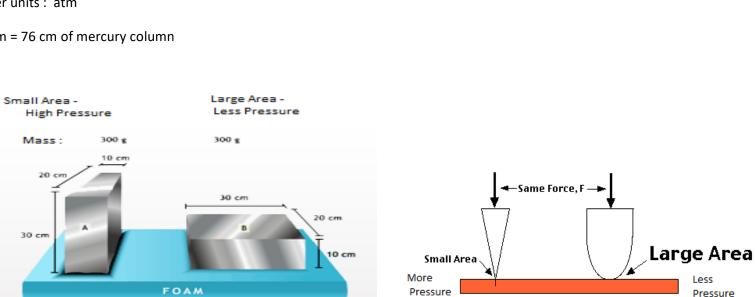
Other units : atm

Mass:

30 cm

20 cm

1 atm = 76 cm of mercury column



It is the force acting perpendicularly to a surface

Pressure:

It is the force acting normally on unit area.

$$Pressure = \frac{Force}{Area} = \frac{F}{A}$$

Sharp Knife

Dull Knife