

Part 1

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Pressure

Pressure is force over area. The
unit is newtons in Newtons

$$P = \frac{F}{A} = \frac{N}{m^2} = Pa$$

N/m^2 is called Pascal

$1 Pa = 1 (kg/m \cdot s^2)$

1 MPa is defined as $10^6 Pa$ = 1000000 Pa