

# Hydrostatique

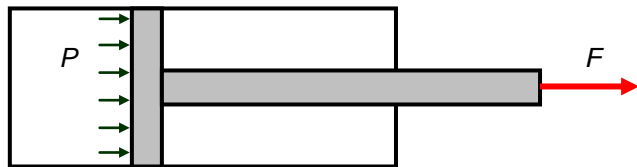
$$F = P \times S$$

N      MPa      mm<sup>2</sup>

10 Newton = 1kg = 1daN

Pression : 1 bar = 0.1 MPa

Calcul de « S » en sortie



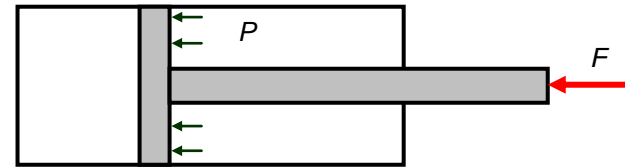
A diagram of a circle with a radius vector labeled  $R_p$  pointing from the center to the edge.

$$S = \pi \times R_p^2$$

3.14      Rayon piston

Calcul du rayon :  $R = \text{Diamètre} / 2$

Calcul de « S » en retour



A diagram showing a large circle with radius  $R_p$  and a smaller circle with radius  $R_t$  inside it. The area between them is shaded gray.

$$S = S_{\text{piston}} - S_{\text{tige}}$$
$$(\pi \times R_p^2) - (\pi \times R_t^2)$$