

# Hydrostatique

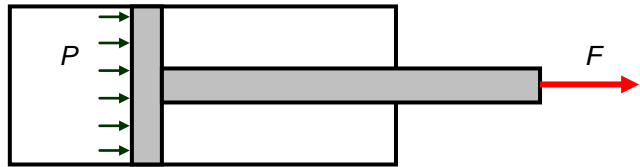
$$F = P \times S$$

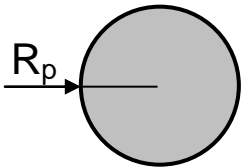
N      MPa      mm<sup>2</sup>

10 Newton = 1kg

Pression : 1 bar = 0.1 MPa

Calcul de « S » en sortie



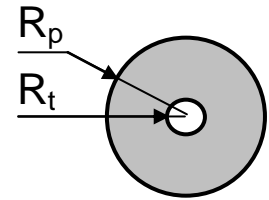

$$S = \pi \times R_p^2$$

3.14    Rayon piston

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

Calcul de « S » en retour




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