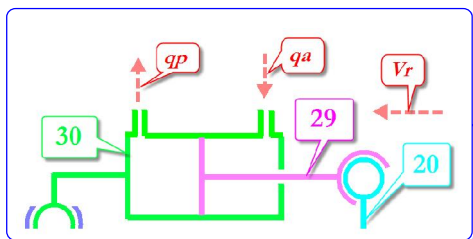


Relations du vérin hydraulique

Rentre en tirant

Sort en poussant

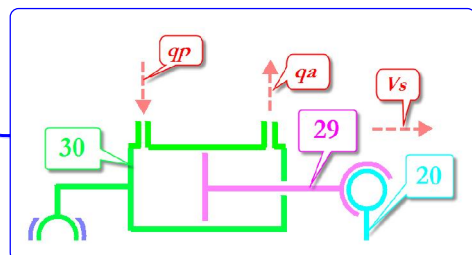


$$Q = 60 \cdot S \cdot v$$

Units: L/min, m/s, cm²

$$Q = v \cdot S$$

Units: m³/s, m/s, m²



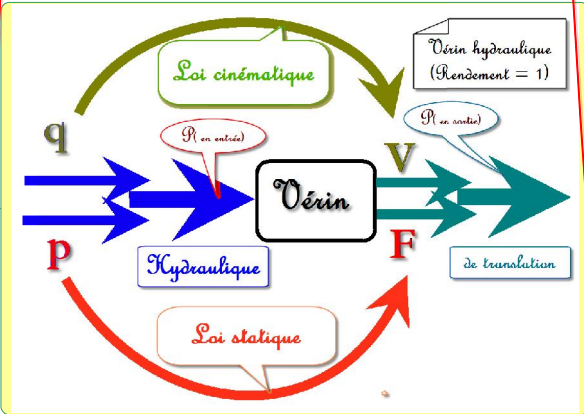
$$(0,6)P = p \cdot q$$

Units: w, bar, L/min

Puissance hydraulique

$$P = p \cdot q$$

Units: w, Pa, m³/s



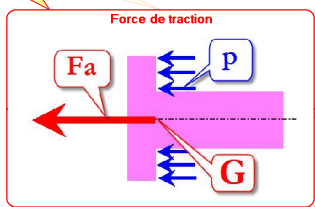
$$P = F \cdot v$$

Units: w, N, m/s

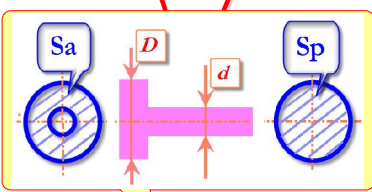
Puissance de translation

$$P = \vec{F} \cdot \vec{v}$$

$$S_a = \frac{\pi \cdot (D^2 - d^2)}{4}$$

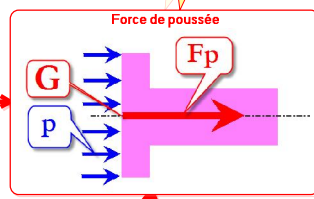


$$F_a = p \cdot S_a$$



$$F_p = p \cdot S_p$$

$$S_p = \frac{\pi \cdot D^2}{4}$$



$$P_{sortie} = P_{entree} \cdot \eta_{m\u00e9canisme}$$