



$$\text{Section piston} = AS = 19,63 \cdot 10^{-4} \text{ m}^2$$

$$\text{Section tige} = AST = 3,8 \cdot 10^{-4} \text{ m}^2$$

$$\text{Section piston - tige} = AR = 15,83 \cdot 10^{-4} \text{ m}^2$$

$$\text{Section tuyaux} = AT = 2,835 \cdot 10^{-4} \text{ m}^2$$



$$\text{Débit} = Q = V \cdot \text{Surface}$$

$$\frac{\text{m}^3}{\text{s}} = \frac{\text{m}}{\text{s}} \cdot \text{m}^2$$

$$Q \text{ pompe} = 20 \text{ l/min} = 0,02 \text{ m}^3/\text{min}$$

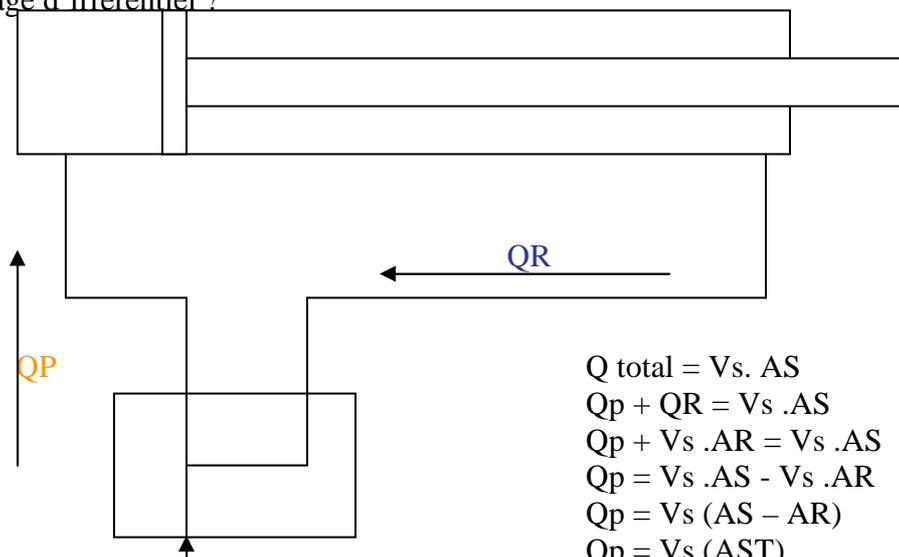
$$3,33 \cdot 10^{-4} \text{ m}^3/\text{s}$$

$$\text{Vitesse de sortie} = Vs = 0,169 \text{ m/s}$$

$$\text{Vitesse de rentré} = Vr = 0,210 \text{ m/s}$$

Pour le tiroir de gauche ??

Montage d'ifférentiel ?



$$Q \text{ total} = Vs \cdot AS$$

$$Qp + QR = Vs \cdot AS$$

$$Qp + Vs \cdot AR = Vs \cdot AS$$

$$Qp = Vs \cdot AS - Vs \cdot AR$$

$$Qp = Vs (AS - AR)$$

$$Qp = Vs (AST)$$

$$Vs = QP/AST$$

$$Vs = 0,8763 \text{ m/s}$$

$$V \text{ max dans les tuyaux} = QP/ AT = 1,174 \text{ m/s}$$