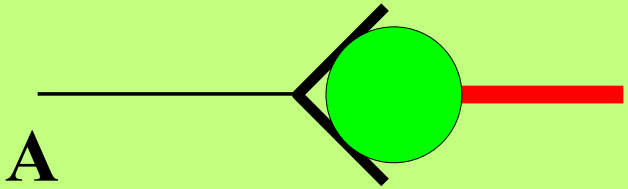
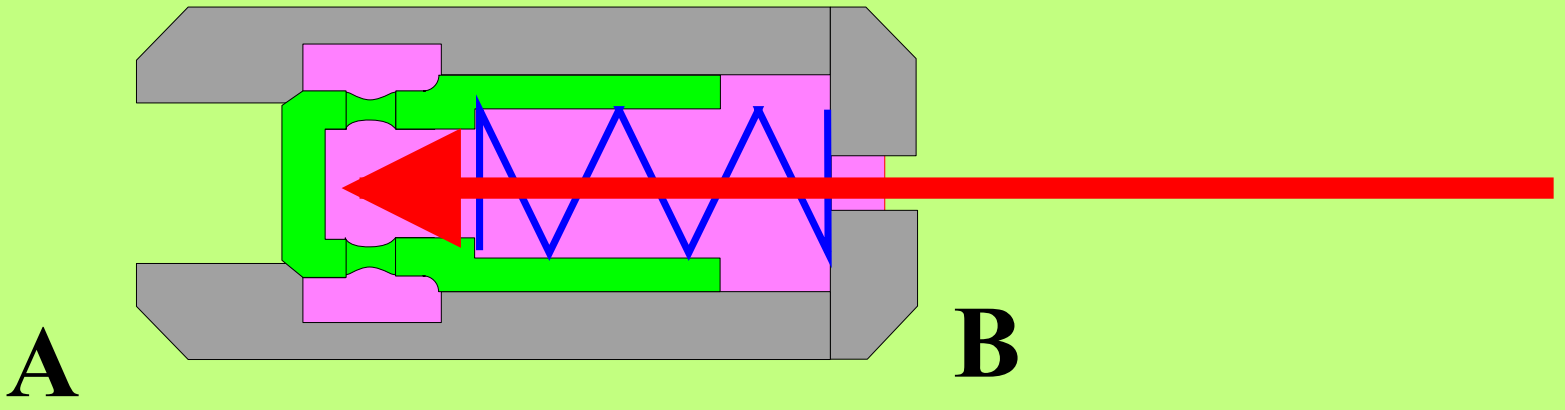
Les clapets

Clapet de non retour

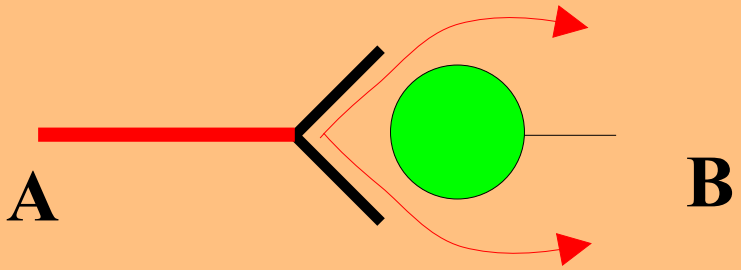
Symbole



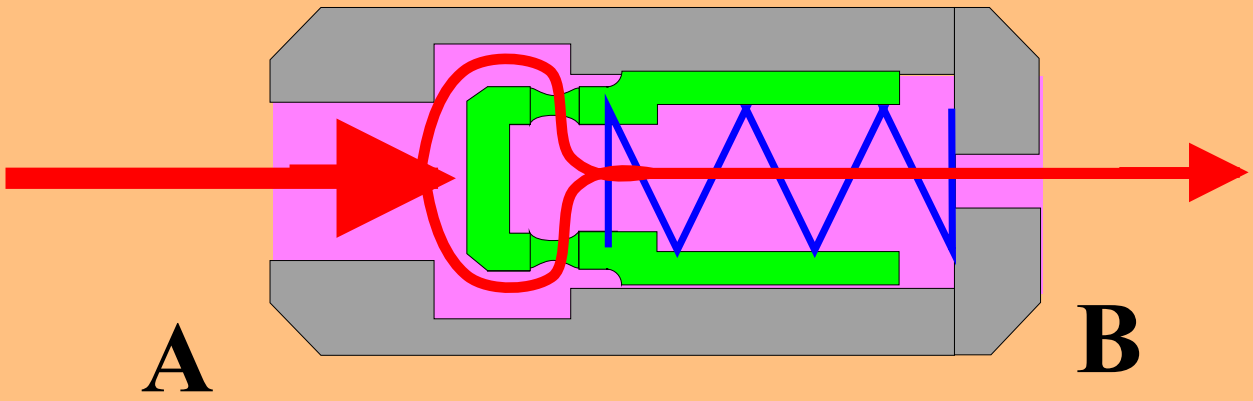
Blocage de l'écoulement du fluide



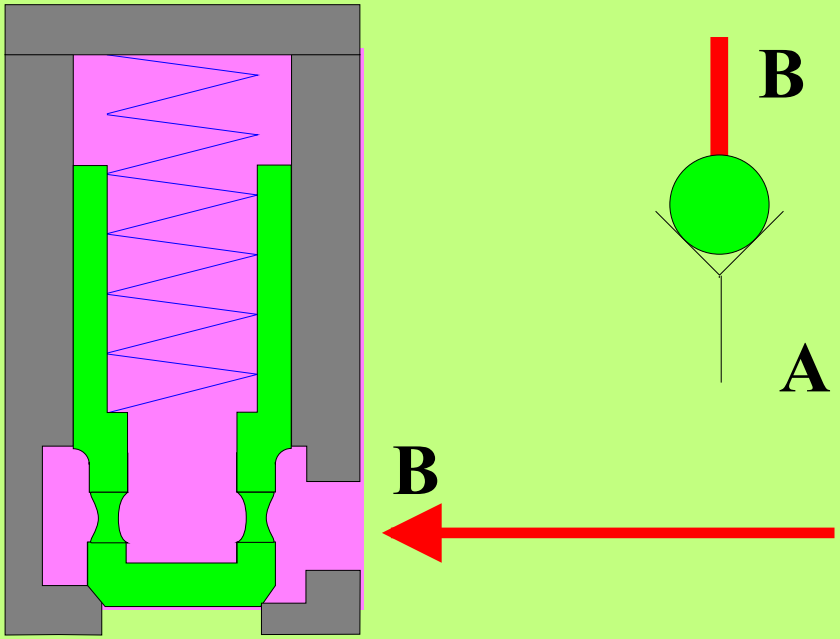
Clapet de non retour



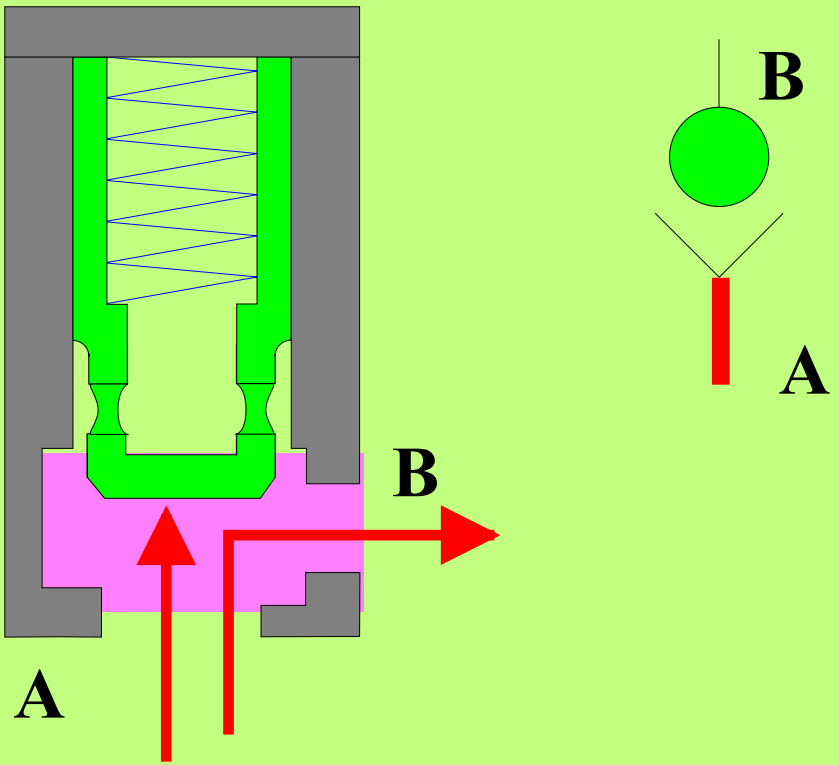
écoulement du fluide



Bloqué

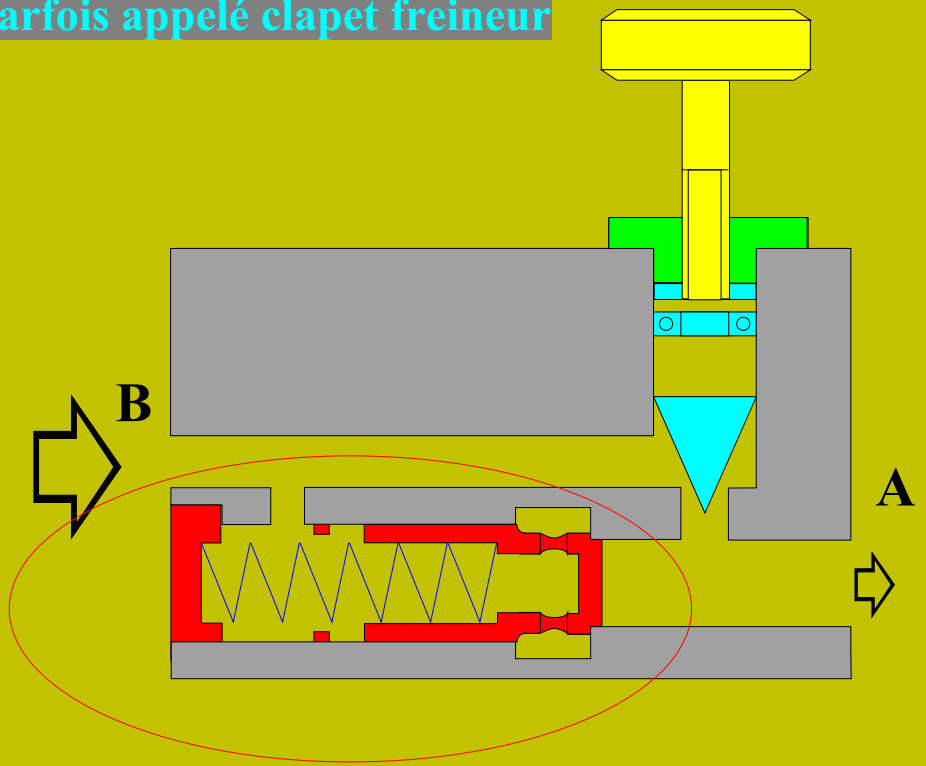


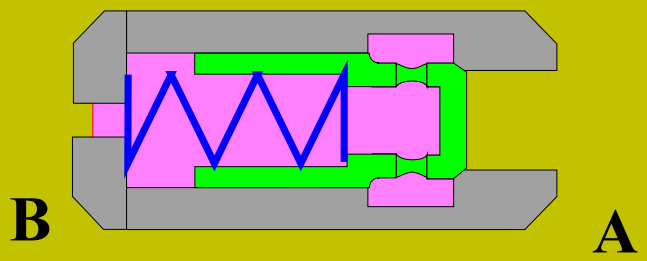
Passant



Le RDU Réducteur de Débit Unidirectionnel comporte aussi un clapet

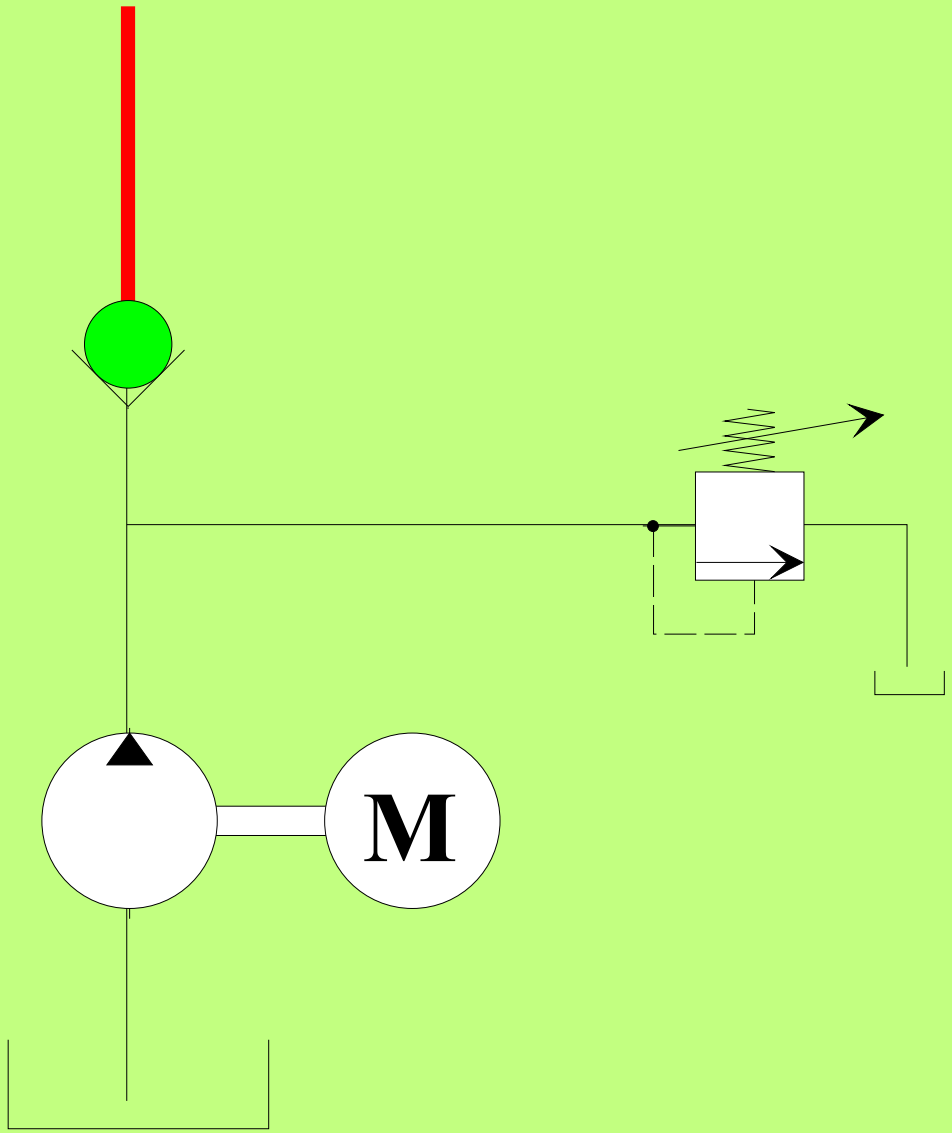
Il est parfois appelé clapet freineur



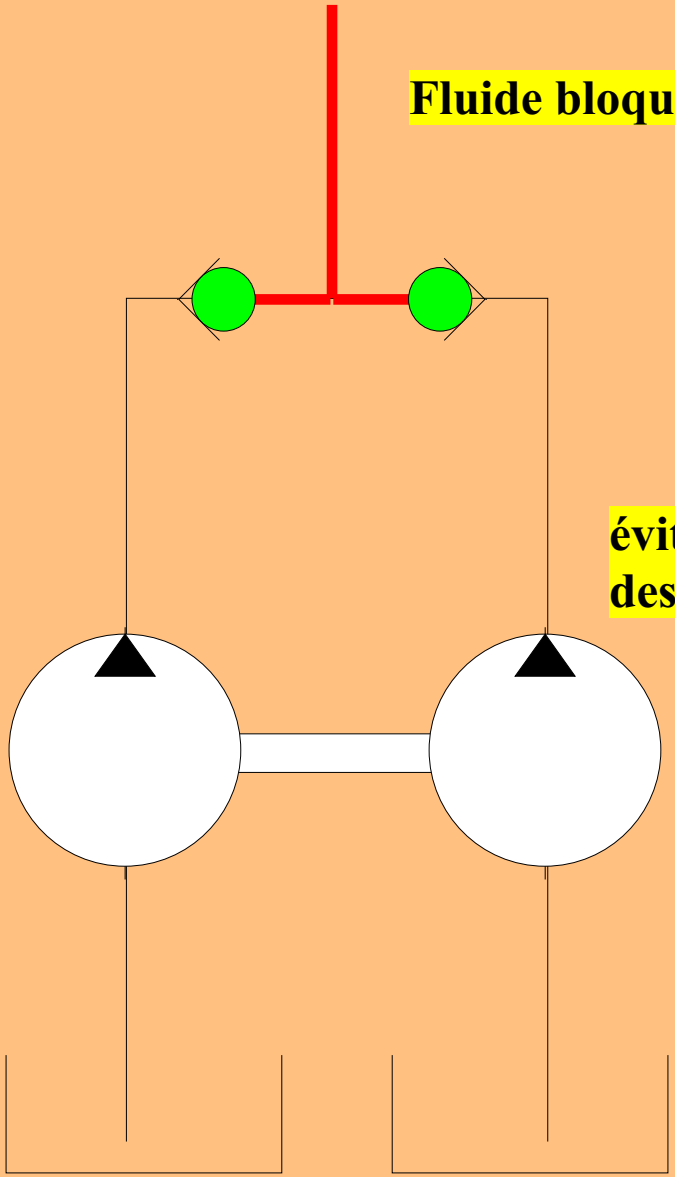


Montage en ligne

Maintient du circuit sous pression à l'arrêt



Protège la pompe des surpressions (charges motrices)

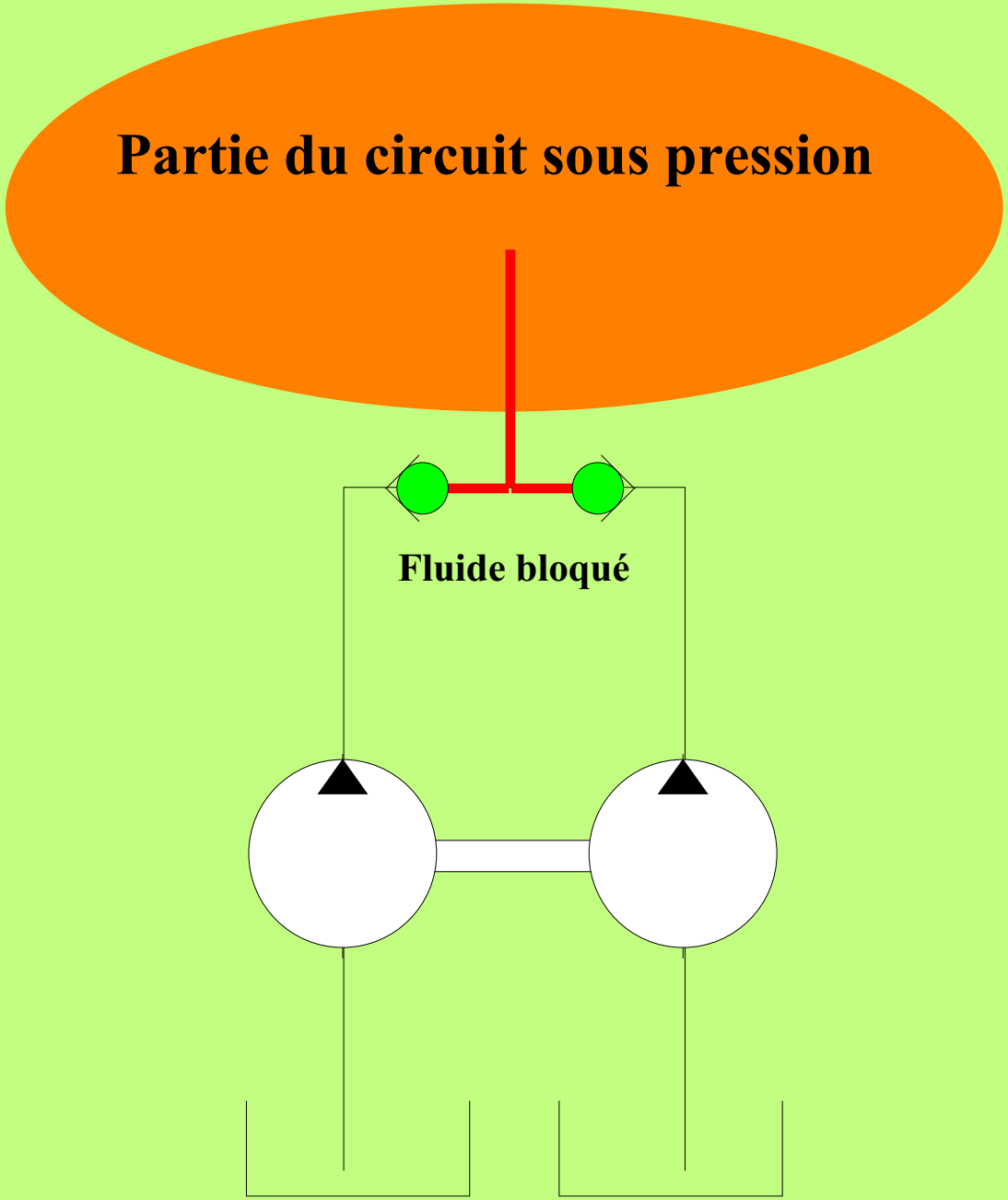


Fluide bloqué

évite la vidange du circuit lors du démontage des pompes

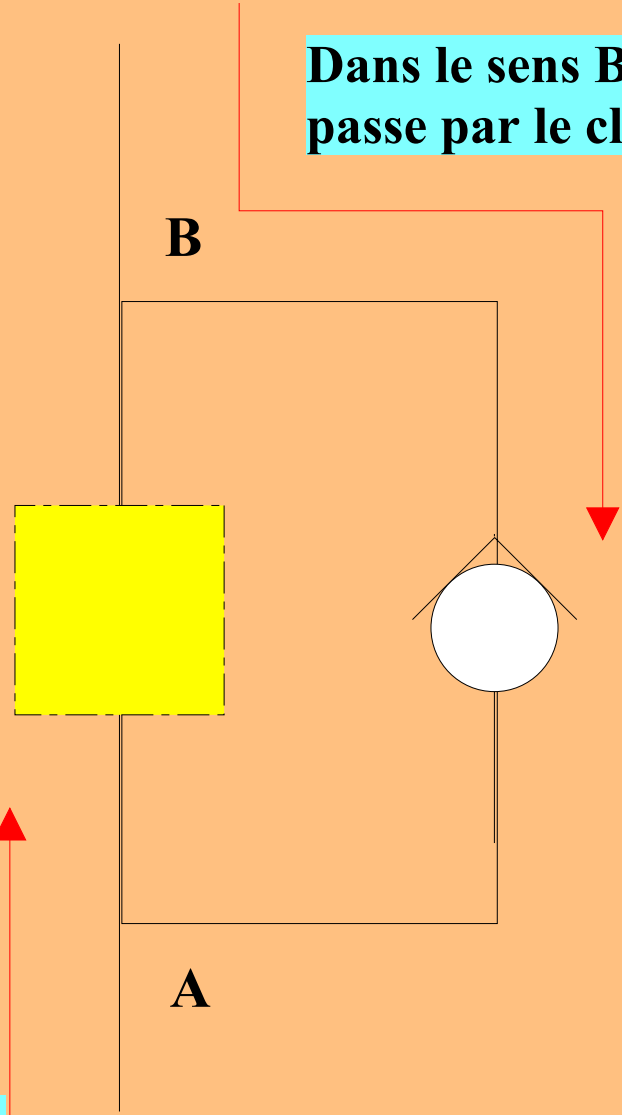
Danger

attention lors des interventions sur le circuit resté sous pression



Montage en paralèlle

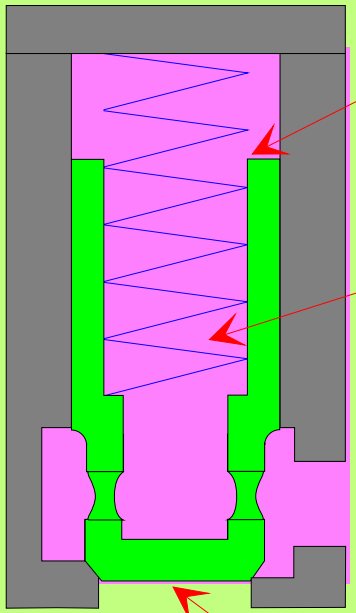
Dans le sens BA le fluide passe par le clapet



Appareil nondéfini

Dans le sens AB obligation de passer par l'appareil

Equilibre du tiroir



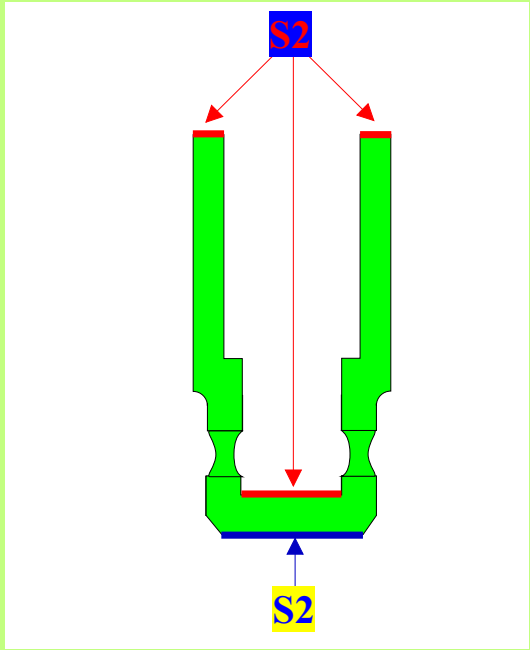
S2 = 1,5 cm²

Force du ressort
3 daN

B

A

S1 = 1 cm²



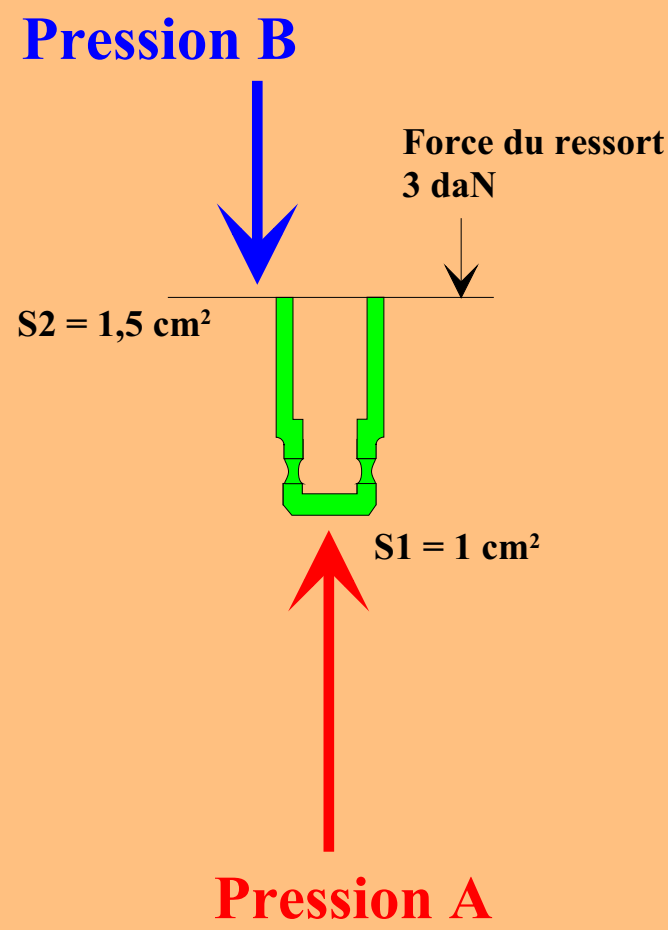
Pression B

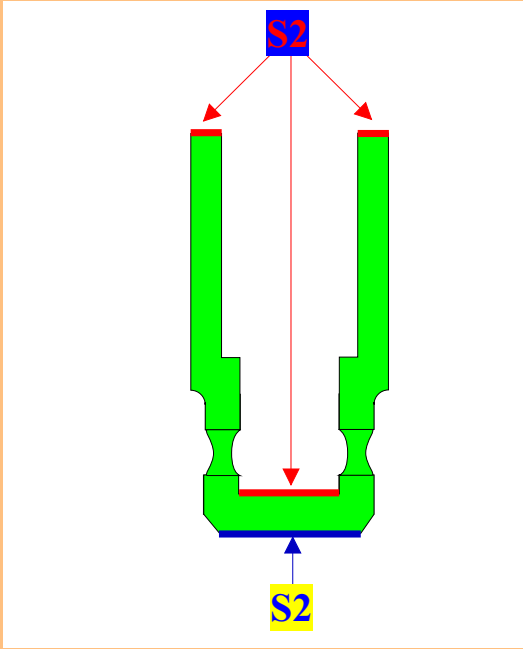
Force du ressort
3 daN

S2 = 1,5 cm²

S1 = 1 cm²

Pression A





Calculer la pression en A pour passer de A en B si la pression en B = 0 ?

$$F = P \times S$$

$$P = \frac{F}{S} = \frac{3}{1} = 3 \text{ bar}$$