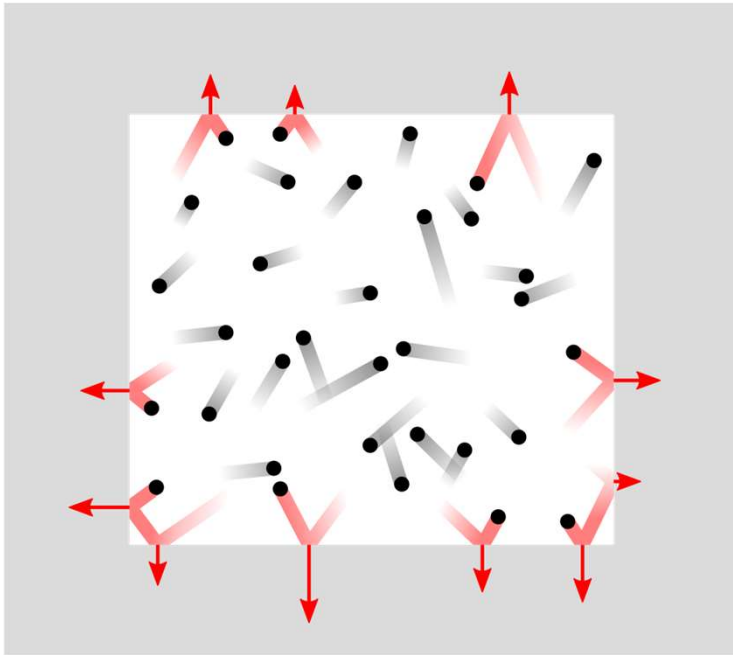


Pression

$$P_{atm} \rightarrow l \approx 70nm$$

$$P = 10^{-4} Pa \rightarrow l \approx 70m$$



https://www.youtube.com/watch?v=BG97Bk_BI7Y

https://www.pccl.fr/physique_chimie_college_lycee/quatrieme/chimie/air_pression.htm

Unités de pression

Pascal	$1Pa \triangleq 1N.m^{-2}$
Bar	$1bar = 10^5 Pa$

Atmosphère

$$1atm = 1,013bar = 1013hPa$$

mm de mercure

$$760mm_{Hg} = 1atm$$

Le kg/cm^2

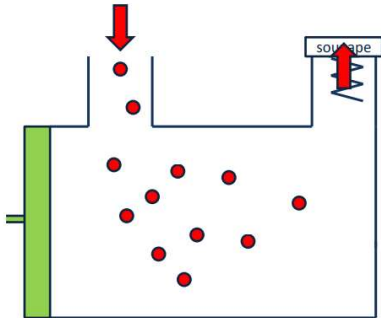
$$1kg.cm^{-2} = 0,981bar \simeq 1bar$$

Le PSI (pound
square inch)

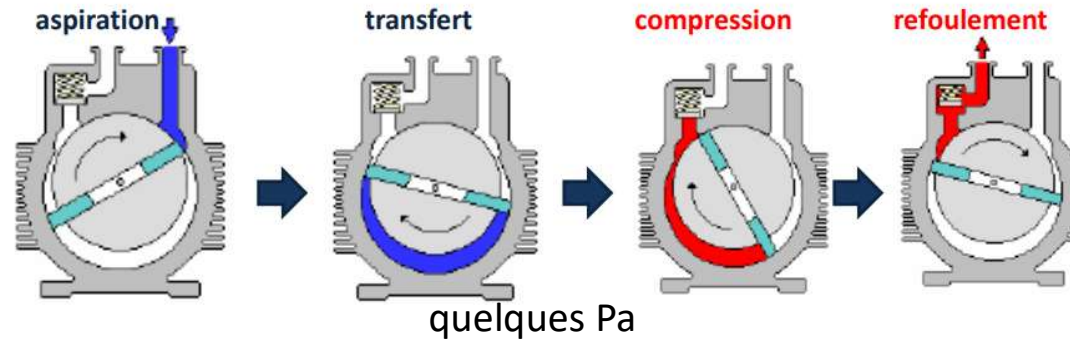
$$1psi \simeq 0,07bar$$

Basses pressions

Pompe à soupape



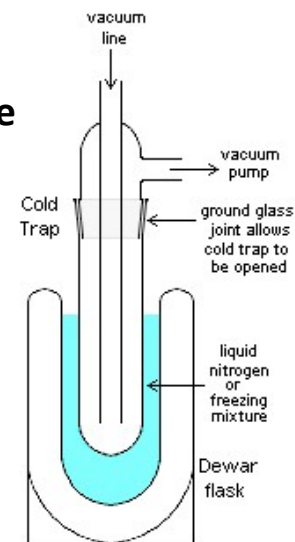
Pompe à palettes



Pompe turbomoléculaire
quelques 10^{-7} Pa



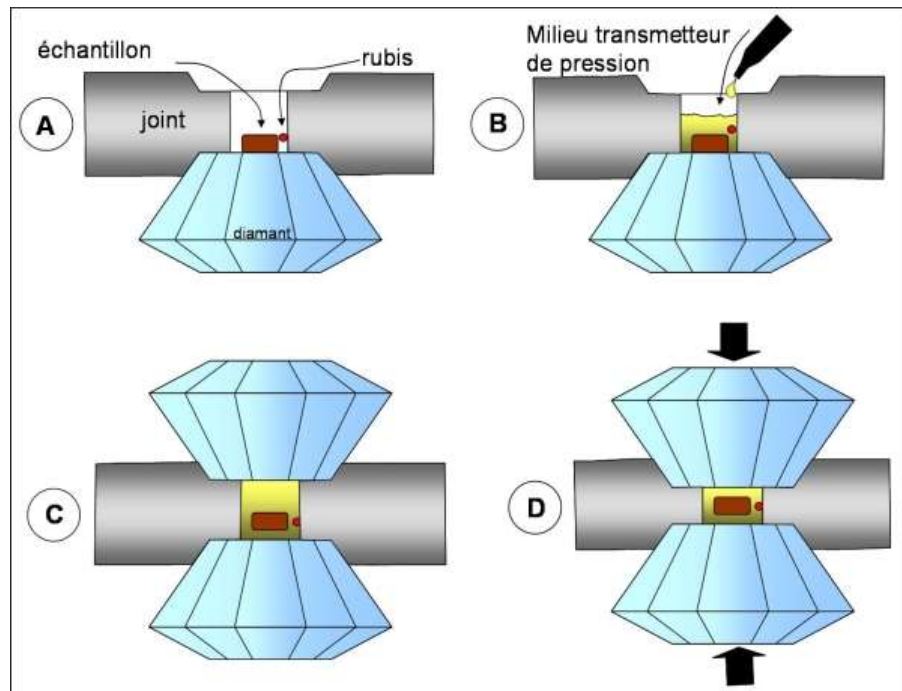
Pompe
cryogénique



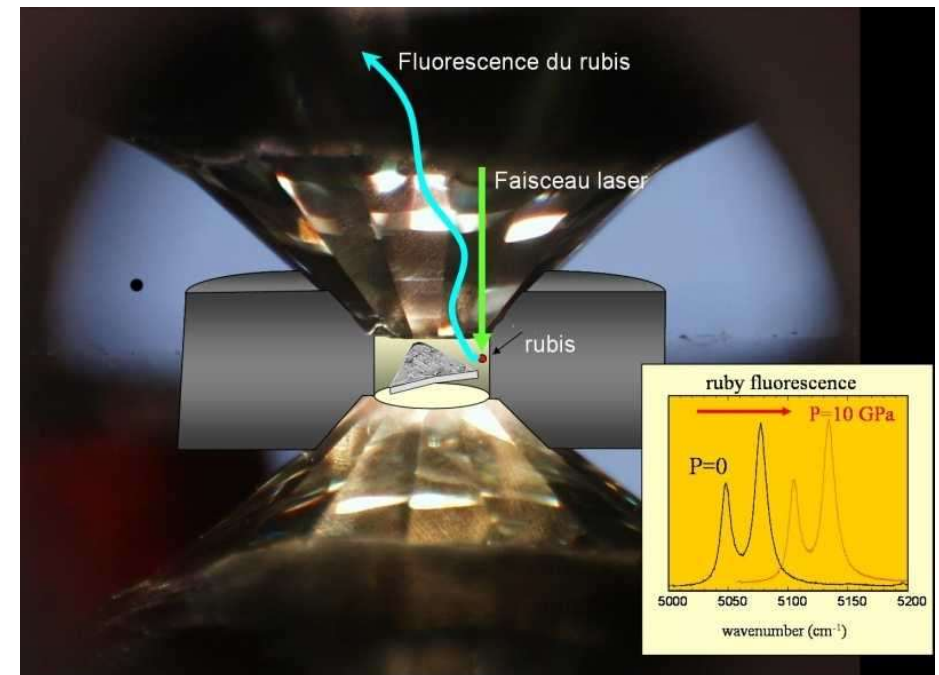
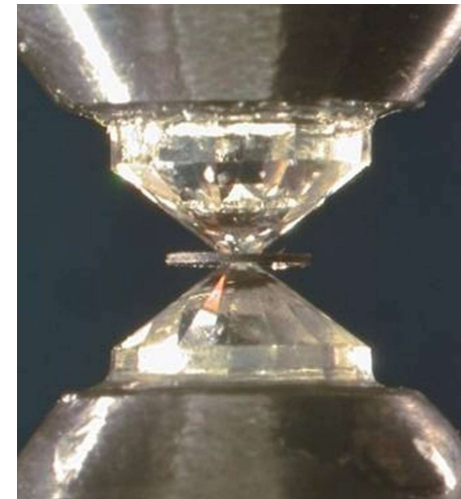
P(espace interstellaire)
 $\approx 10^{-14}$ Pa

Hautes pressions

Cellules à enclume de diamants



P maxi = 50 000 bar



Principe du baromètre

