

Thermodynamic processes

How to change a chaos to the order. The chaos of plenty trembling molecules or atoms in the cylinder into the order of moving piston inside the cylinder. For the first view we predict only one particle inside the cylinder with the piston. See – Fig.1.

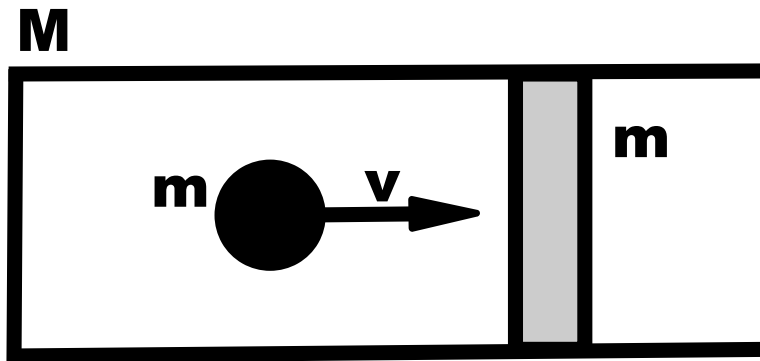


Fig. 1 – the cylinder with only one particle with the velocity v

The cylinder weighs M (kg) and the piston weighs m (kg). The particle weighs also m (kg). The velocity v (m/s) of the particle is precisely in an axis of the cylinder. The question is what will happen to the entire system (cylinder and piston) when the particle moves (reflects) within the system. On the first approach, the piston will be firmly attached to the cylinder (by welding) and on the second approach, the piston will be sliding in the cylinder axis so that it can move.

to be continued