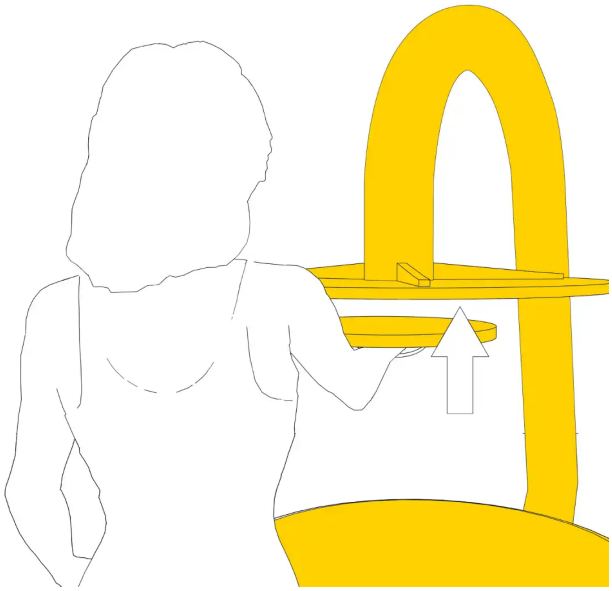
# Air pressure levitator

Do you manage to let the disc float directly under the pipe opening?



Feel the jet of air blowing downwards from the middle of the clear plate.

Pick up the round disc, flat side up, and lift it towards the jet.

What do you think will happen when the disc is very close to the jet?

At first you can feel the jet pushing the disc down. At a certain distance the disc clings to the jet. You can let go of it and it does not fall.

As the air from the jet flows through the narrow space between the two plates, it speeds up and its pressure falls below normal air pressure. The normal air pressure under the disc is greater than the pressure in the narrow space. The disc is now pressed upwards.

This effect, named after its discoverer Daniel Bernoulli, helps airplanes to fly.