

Some phenomena explained by Bernoulli equation: (brief explanations will be presented in class)

- Why the roof of a house can be taken away by strong wind?
- How does a Venturi pool sweeper (see next page) work?
- How does a fuel pump stop when the tank is full? Check animation: <https://www.youtube.com/watch?v=afKwoc5DG9Y>
- Why the water in the toilet moves when it is windy outside (and the doors of the house are closed)? (see next page)
- Why the water stream coming out of a water faucet narrows as it goes down? (this is actually more like a balance between kinetic and potential energy)
- How do airplanes fly?
- What will happen to a spoon as you bring its outside surface in contact with the water stream coming out of a faucet?
- Why the shower curtain comes towards you when you take a shower? (actually this is an example where Bernoulli equation has been used **ERRONEOUSLY** to explain it! The correct explanation will be presented.)



Different types of stack vent covers

