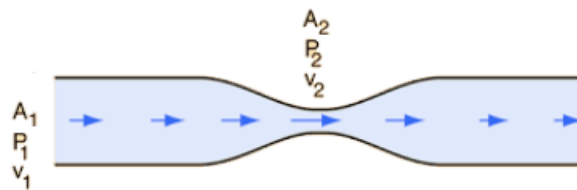


The aerodynamic center is the point where:

- a. The pitching moment coefficient of the airfoil does not vary with the lift coefficient
- b. The rolling moment coefficient of the airfoil does not vary with the lift coefficient
- c. The yawing moment coefficient of the airfoil does not vary with the lift coefficient
- d. The airspeed of the aircraft does not vary with the lift coefficient

Consider the flow of a fluid in the tube show below where A is the area of the cross section of the tube, P is the pressure of the fluid, and v is the velocity of the fluid, then we can conclude that:

- a- $P_1 = P_2$
- b- $v_1 = v_2$
- c- $P_1 > P_2$
- d- $v_1 > v_2$



The actuators that move the control surfaces of an aircraft are:

- a. Electrical actuators
- b. Hydraulic actuators
- c. Pneumatic actuators
- d. Both pneumatic and hydraulic