

Variable that Affects Air Pressure

There are many variables that affect air pressure. Like a barometer, a barometer is an instrument used to measure atmospheric pressure. There are two types of barometer which are the mercury barometer and the aneroid barometer. The mercury barometer does the measuring the pressure of air at the airtight tube of mercury. The height of the mercury rises in the tube is the atmosphere pressure. About 760 millimeters or 760 mm (29.9 inches) atmosphere pressure, which takes place at the sea level. The aneroid barometer measures the changing of the size of an airtight container. When the air pressure decreases, the container gets larger or thicker.

Altitude is another different variable that affects the air pressure. The altitude is the height above the earth's surface. When it is measured from the sea level it's 0 percent. When it's higher up the air weighs less and the pressure is lower. Volume is another variable that changes the atmosphere pressure. It measures how an object takes up space like matter. As volume increases the air pressure decreases. The air pressure inside the system decreases and then the air inside the system pushes harder than the air outside pushes in.

Temperature is the third kind of variable that air pressure depends. Gases speed up and spread out into the larger place when it gets heated. In the original volume of air are now fewer particles of gas. The amount of water vapor is part of the variable that affects the air pressure. Water vapor is lighter than air. When the air mixes with the water vapor, the air becomes lighter. The amount of the water vapor in the air is called humidity.

There are many important variables. Which they are the altitude, volume, temperature, amount of water vapor, and the two types of

barometers.