



AA-B0043

BOYLE'S LAW APPARATUS

FEATURES:

- To show the correlation between **PRESSURE** and **VOLUME** in a constant temperature environment
- Readings in kPa and cm³

The Theory:

The law was discovered in 1662 by Irish physicist and chemist **Robert Boyle**. If a gas is compressed in a cylinder the volume of the gas decreases. The number of particles of gas in the cylinder remains the same. The particles get closer together; collide with each other more frequently, and the pressure of the gas increases due to the force of the particles colliding. If the pressure is P and the volume is V , then $P = 1/V$. Therefore, as the volume decreases the pressure increases.

