

Baroscope 1003169

Instruction sheet

06/18 ALF



- 1 Base
- 2 Stand rod with pivot
- 3 Styrofoam sphere
- 4 Balance beam
- 5 Counterweight

1. Safety instructions

- Check the vacuum bell jar for damage before conducting the experiment. Defective vacuum bell jars can result in implosions.

2. Description

The baroscope is used to demonstrate the effect of buoyancy on an object in air

The baroscope consists of a balance beam mounted on a metal base on whose cross balance beam a styrofoam sphere is suspended from an eyelet. At the other end of the balance beam there is an adjustable counterweight to establish equilibrium.

3. Technical data

Styrofoam sphere:	50 mm Ø
Base:	120 mm x 90 mm
Height:	125 mm

4. Operation

Additionally required:

1 Chamber e.g. Vacuum Experiment Plate and Vacuum Bell Jar	1003166 1020809
1 Vacuum pump e.g. Rotary-Vane Vacuum Pump, One-Stage	1012855
1 Vacuum hose e.g. Vacuum Hose, 8 mm	1002619

- Place the baroscope on a vacuum experiment plate.
- Adjust the balance beam so that it is in a state of equilibrium under atmospheric pressure.
- Cover it with the vacuum bell jar and evacuate the chamber.
- Styrofoam sphere falls due to the drop in air buoyancy.

