

## AIR TESTER

### MEASUREMENT of AIR CONTENTS in PULP



#### PRINCIPLE

The equipment is based on the BOADWAY method of expansion. A fixed volume of stock is isolated in a sample chamber under atmospheric pressure. Then a sudden vacuum of 50 cm Hg is applied to the sample.

The air in the sample expands under vacuum and by measuring the increase in the volume of the sample the air content can be calculated using BOYLES law.

#### APPLICATION

Within the paper industry the equipment has been used for measuring air contents at the paper machine head box, various parts of the approach flow system and in the white water circuit.. Measurement of air in stock is important for determining the correct dosage of defoamers.

#### OPERATION

After installation of the Air Tester and connection of the pulp inlet and outlet, the operator has to sample, to measure and to calculate free air and bound air contents, as clearly described in the manual.

After a series of tests, the Air Tester has to be flushed with water. The design of the measuring tube allows you to clean it from inside with a long brush.