

2006 CALIBRATION OF MN/DOT CONCRETE AIR TESTING UNIT (TYPE A)**2006.1 PROCEDURE**

- A. Check identification of upper and lower unit, check general condition and thoroughly clean unit.
- B. Place calibration unit into lower unit and carefully fill lower unit with water. Fasten top unit to lower unit and fill with water past the zero mark.
- C. Attach air pump, pressurize unit to tag pressure and record observed percent of air. Release pressure and observe water level. If water level did not return to zero, check for leaks, adjust water level to zero and rerun.
- D. Calculate the percent of air using the following equation:

$$\% \text{ Air} = \frac{\text{Volume of Calibrated Unit}}{\text{Volume of Air Unit}} \times 100$$

NOTE: The volume of the air unit is marked on the side.

- E. Compare observed results with calculated results. If difference is greater than 0.1%, run test again. If difference is still too large, increase or decrease pressure until proper % of air is achieved. Make a new metal tag with appropriate air pressure stamped on it and attach it to the Air Meter.
- F. If the required percent of air cannot be reached with the meter pressurized to $207 \pm 14\text{kPa}$ ($30 \pm 2\text{ psi}$), replace the gauge and repeat steps B thru E.
- G. Units that meet requirements shall be marked O.K. and dated (month and year), using tape or other marking method.