

## IA Checklist T 152 Annex-Calibration Procedures (Type B Meter)

Procedure	P	F	NA
1			
Fill meters bowl completely with room temperature water. Screw the straight calibration tube into the threaded petcock hole on the underside of the lid. Note which petcock hole is used. Clamp lid on bowl.			
2			
Open both petcocks. Use syringe to inject water into petcock with short tube installed until water and all air bubbles are expelled through the opposite petcock. Rock the meter gently during this procedure to help remove air.			
3			
Pump air into meter until gauge hand is just beyond the indicated initial pressure line. Wait a few seconds for the compressed air to cool and tap gauge lightly. Stabilize gauge hand at the initial pressure line by bleeding off air with valve cap or pumping air in as necessary, tapping the gauge lightly.			
4			
Close both petcocks. Press down on the needle valve lever and release air into the bowl. Tap the gauge lightly with your finger while holding down the lever. Wait a few seconds for the gauge hand to stabilize and release lever. Gauge hand should read 0% if all air was eliminated from bowl and initial pressure line setting was correct.			
5			
The initial pressure line should be adjusted if two or more readings show the same variation from zero percent and the test repeated to check the adjusted initial pressure line.			
6			
To calibrate the apparatus, screw the curved calibration tube into the petcock with the short tube installed, open petcock and position calibration vessel under the curved tube. Press the needle valve down and carefully fill the vessel exactly full of water, using needle valve and petcock to control the flow of water into vessel. DO NOT OVER FILL THE VESSEL.			
7			
Open opposite petcock, open petcock with curved tube allowing water in the tube to run back into the bowl. The bowl now contains 5% air.			
8			
With both petcocks open, follow the procedure in step 3 to pressurize the meters gauge hand to initial pressure line that was established. Close both petcocks and press needle valve lever down. Wait a few seconds for air to warm and gauge hand to stabilize. Press valve lever again to release any remaining air. Gauge should now read 5%.			
9			
If two or more tests indicate a variation of +/- 0.1% reset the gauge hand. Remove the glass from meter and turn the calibration screw on the gauge hand to reset hand to 5%. Retest to insure settings are correct.			
10			
When gauge hand reads correctly at 5%, additional tests may be run in increments of 5% each by withdrawing additional water with the calibration vessel.			

**Remarks:**