

Bubble Point Test Procedure

Sintered powder and mesh filter elements — standard operating procedure

Test Preparation

Use pure (distilled or deionised) water as the test liquid. Maintain temperature at **25 °C ± 5 °C** to ensure consistent surface tension and measurement accuracy.

Test Procedure

1. Fill the filter element completely with test liquid and soak for **5 – 10 minutes**.
2. Drain the test liquid, then connect the test port.
3. Secure the filter element so it is **fully submerged** in the test liquid, with the top edge **1 – 2 cm below the surface**.
4. On the touchscreen home screen, select the appropriate test liquid and filter media, then press "**Start Test**".
5. Move the **first and second** control levers to the bottom position; move the **third** lever upward to begin **slow pressurisation**.
6. Watch the filter element closely. When the **first continuous stream of bubbles** appears, press "**First Bubble Point**" and record the pressure.
7. Continue observing. When **5 or more continuous bubble streams** appear simultaneously, press "**Bulk Bubble Point**" and record the pressure.
8. Press "**Generate Report**".
9. Review the test report. Use "**Save**" or "**Print**" to retain the data.
10. Move the **third lever** to the bottom position to begin **depressurisation**.

*Note: The first bubble point reading is typically slightly higher than subsequent readings. Perform at least **two test runs** and use the second (or later) measurement as the final result.*

End of Test

1. Depressurise: confirm system pressure returns to zero.
2. Remove the filter element from the test liquid. Move the **first lever upward** to begin the **purge (blow-dry)** cycle.
3. Once the filter element is dry, move the **first lever back to the bottom** position. The system is ready for the next test.
4. Detach the filter element.