

Integrity Test - Bubble Point Method (Using Q.I. Medical Tester #PG005)

Note: The following procedure was developed for testing Wizard™ hydrophilic filters. Refer to a filter manufacturer's specifications when testing any other filter.

1. Fill a 10 to 20 mL syringe with approximately 10 mL of fresh, clean, water.
2. Attach the syringe to the female luer lock on a used Wizard syringe filter.
3. Orient the outlet of the filter in a downward direction and flush the filter with water.
4. Detach the flushed filter from the syringe and attach filter to the male luer lock on the bubble point tester, #PG005.
5. Fill the syringe with approximately 10 mL of air.
6. Attach the syringe to the female luer fitting on the bubble point tester.
7. Immerse the male luer outlet of the filter in a beaker of water.
8. Optional: Slip a 4 to 6 inch length of "IV sized" tubing on to the filter's male luer fitting to make manipulation during testing more convenient. First wet the end of the tubing to facilitate removal of the tubing from the filter after the test.
9. Gradually apply increasing air pressure to the filter. Constantly watch for a **steady stream of bubbles** from the filter outlet.
10. Stop applying pressure as the gauge reaches 45 psi when testing a 0.2 μ Wizard filter.
11. Stop applying pressure as the gauge reaches 60 psi when testing a 0.1 μ Wizard filter
12. The filter passes the integrity test if there is no stream of bubbles before the pressure gauge reaches the target pressure. A steady stream of bubbles before the gauge reaches the target pressure indicates that the filter has failed the integrity test.
13. Discard the used filter in a safe manner.

