

LIQUID SOLUTIONS

EXPERTS IN LIQUIDS PROCESSING FILTRATION AND BOTTLING

INSTRUCTIONS FOR CARBONATION TESTER (CROWN CAPS)

TEST SHOULD BE PERFORMED WEARING SUITABLE SAFETY GEAR, e.g. SAFETY GLASSES AND LEATHER GLOVES, IN CASE OF BOTTLE BREAKAGE. It's best to have a firm grip on both bottle and device when shaking to avoid stress on the neck (bottle and human!)

CAUTION the needle is very sharp! Keep safety cap on when not in use.

1/ Get samples to between 15 and 25 deg.C. before testing. Using a consistent temperature each time, e.g. 20 deg. C. will mean better reproducibility. Using a low temperature means the pressure reading is low on the scale, and therefore less accurate.

2/ With the plunger/needle in the 'up' position, wind out the threaded collar about halfway, place device over the crown cap, and tighten the four thumbscrews evenly: these should sit just under the neck ring of the bottle, about 20mm down.

3/ With the valve open, screw down the collar so the rubber seals tightly on top of the crown cap.

4/ Close the side vent valve, then depress the plunger firmly to pierce the cap. Pressure gauge should read.

5/ Shake bottle a few times, wait 10 seconds, then observe pressure reading. Repeat until pressure reading is constant. A consistent method of shaking will improve reproducibility.

6/ Open side vent valve to release pressure, raise plunger/needle (carefully, to avoid damage to bottle neck), then unscrew collar and thumbscrews to remove the device.

7/ Measure temperature, read off carbonation (volumes, or grams per litre) from the slide rule or tables / nomogram

8/ Rinse the device with hot water and/or a mild detergent after use.