



STAR ECOTRONICS s.r.l.

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BOTTLE CAPPING CONTROL SYSTEM MODEL MPB 97/6



GENERAL

The model MPB has been developed to perform the measurement of the maximum pressure kept by the cap in bottles containing beer or aerated soft drinks. It can work with glass or PET bottles and a special version of the device can also be used to control cans.

The main application is to detect the maximum pressure that the capping system can keep and for this purpose it can also detect any leakage due to micro holes in any liquid container.

The way of operation is quite simple: the bottle is placed in the main cylinder made by aluminium and special Plexiglas and filled with water to reduce the effect of an eventual explosion of the bottle.

The measuring procedure requires a source of compressed air connected to a specific inlet with a manometer indicating the value applied. This air is applied to the bottle through a pressure regulator and a further manometer indicating the pressure inside the bottle as the cap has a hole produced by a special tool which also connects the compressed air in a sealed mode to the bottle.

The operator, through the pressure regulator, increases the pressure until it drops as the capping is broken or small air bubbles appear in the water as a leakage is starting.

The manometer is provided with a maximum indicator: it means that a red flag remains on the maximum value reached during the test and this is the measurement required by the control. A reset push-button allows the operator to zero the memorised maximum value before starting a new measurement.

A special attention has been paid to the safety of the operation of the MPB: to guarantee it, the cylinder containing the bottle has been built using steel 5 mm thick and the same thickness has the Plexiglas of the window used to monitor the leakage. Furthermore, the top of this cylinder is closed by a disk having a safety device (a piston operated by the compressed air injected in the bottle) which keeps locked the closure until any pressure is applied in the bottle.

TEST PROCEDURE

1. Close the discharge water tap.
2. Fill in the cylinder t the quantity of water required to cover the bottle and the cap perforator.
3. Connect the compressed air supply pipe (min. 8 bars) verifying the value on the right manometer.
4. Screw the perforator in the cap keeping a regular pressure.
5. Connect the blue pipe to the perforator fast connector.
6. Place the bottle in the cylinder controlling the correct placement in the centre.
7. Close the cover.
8. Connect the red pipe bringing the compressed air to the fast connector on the top cover.
9. Rotate clockwise the black gauntlet to increase gradually the pressure to the limit value foreseen for the specific test (i.e. 6 bars for beer bottles). The value is red on the left manometer.
10. In case the operator should see air bubble appearing around the cap or in any part of the bottle, read the maximum pressure value indicated by the red flag on the left manometer.
11. Discharge the compressed air pushing the specific button or rotating the black gauntlet counter-clockwise.
12. The test is finished. Download carefully the bottle.

SIZE

Total: 40 x 48 x 67 cm

Internal size of the cylinder: 18 x 47 cm

Weight: 20 Kg

INFORMATION

For any detail read or ask news on our **web site:** www.staecotronics.it