

KCAP - CO2 pressure deflating crown cap

Actual version - 2021, February - BETA TEST Pmax 2.5 bar

## Introduction

This is a KCAP BETA TEST version and there will be further improvements including but not limited to:

- The delivery of a fully pre-assembled unit
- reduction of pressure tolerances
- a new catalogue of valves with different PMAX headings to choose the right CO2 volumetry for each style of beer or desired carbonation.

## Overall tech details

Type of crown cap: 29mm standard

Width: 29mm standard

Height (cap thickness): 5 mm

The valve system size doesn't overflow the crown's height.

PMAX deflating pressure: 2.7 bar +/- 15% tolerance

Alc Vol Max: 15%

## Assembly elements

Valve: Multi-element valve composed of food and beverage safe plastic polymers designed in 3 main elements plus an O-Ring.

Bidule : in food-polymer with semipermeable integrated membrane.

## Semipermeable membrane technical details

1 Thickness 100-180 um

2 Flow Time 80-140 (MeOH) sec

3 Bubble Point 107.9-152.0 (EtOH), kPa

Material: Polyetrafluoroethylene (PTFE)

Compliant with regulations:

BSE/TSE, 2003/32/CE directives

Reach 1907/2006/CE (hazardous substances regulation)

Conflict minerals

Characteristics

Naturally hydrophobic. Compatible with acids and aggressive solutions, stable and time-durable.

## KCAP USAGE CONDITIONS

Storage of the bottles capped with KCAP

For KCAP to function correctly, bottles must be stored horizontally.

Even when the beverage is in contact with the valve, the excess pressure flows escapes due to the semipermeable membrane which blocks the liquid but allows the gas expulsion.

The one-directionality of the flow is guaranteed by the mechanical system integrated in the Bidule.

#### Bottling instructions

Automatic bottling machine

Assemble the caps manually

Insert the KCAPS in the bottling machine cap container and bottle normally

OR

If you encounter issues with the full automatic mode, only insert the crown caps in the bottling machine and cap the bottles manually with the plastic valve.

Please report any issues to us for further improvements.

Manual capping.

Cap the bottles as usual.

#### Shelf life

5 years of guaranteed valve functionality in normal storage conditions. Storing at room temperature, avoiding direct sunlight.