



## Tightness control ProfiSonic CapSonic

• Advice • Planning • Installation • Operation • Maintenance • Modernisation



CONTAINER INSPECTION



SORTING SYSTEMS



PALETT INSPECTION



KEG-INSPECTION

# Tightness control system - ProfiSonic

ProfiSonic is a system for detecting leaking containers. Bottles, cans and barrels filled with a product containing CO2 lose quality due to the escape of carbon dioxide. Consumer complaints and lost sales are the result.

A remedy within your filling line is an ultrasonic bath that causes the product, e.g. in a leaking bottle, to foam up. This is achieved by mechanical vibrations within the water bath. The foaming causes liquid to escape and the filling level to drop.

At a suitable installation point, e.g. between the filler and the labeler, the now underfilled bottles can be automatically sorted out at the existing Syscona fill level inspection.



## Quality assurance through detection of:

- Sealing rubber defects in swing stopper bottles
- Hanger fatigue for swing stopper bottles
- Leakage from PET and PVC bottles
- Cap leakage with any type of crown cork, screw cap, twist off, natural and plastic corks
- Leakage due to damaged bottle mouths
- Leakage from beverage cans, keg and KEG closure seals





# Tightness control system - CapSonic

An inspection unit for the non-contact, reliable detection of leaks in glass bottles with metal crown caps, especially with a specific target internal pressure after the filling process, by evaluating vibration characteristics with state-of-the-art electronics and software algorithms.

## The special thing:

- Automatic bottle distance compensation
- Compensation of variable influences (temperature, shutter properties, etc.) by dynamic parameter tracking („adaptive“ system)
- Special excitation of the container to increase measurement reliability
- Direct establishment of a reference to the internal pressure of the container as well as adjustment and control of the system with transponder sensor-equipped test containers of the customer
- Ultra-compact dimensions of the station
- Excellent price-performance ratio

This means that sealing, capping or filling faults, including so-called „water pullers“, can finally be reliably detected with the lowest possible pseudo-emission. Applications at home and abroad confirm the functionality of the SYSCONA product.



## ProfiPush Bottle Discharge

Guarantees the purpose-safe and standing discharge:

- Electro-pneumatic system with a high-performance cylinder, complete with compressed air maintenance unit
- Trouble-free sorting out in the event of series errors (even at different filling levels and changing speeds)
- Long service life thanks to quality components
- Capacity up to 70,000 containers/hour

Downward movement and contact at the centre of gravity with a spring-loaded plastic plate, which optimally adapts to the container contour.

**Also available with electronic operation, which makes even finer and specific settings possible.**





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## **SYSCONA**

this means creativity, commitment, quality and a versatile product range. We see our task in the continuous development of our products and in the new development of systems. Practical use with high performance and maximum functional reliability are always in the foreground. Making customers even more successful through the best rationalisation effects and new, intelligent solutions for quality assurance, material flow and data processing tasks – this is our highest goal.

## **Your technology partner**

**SYSCONA** Kontrollsysteme GmbH, founded in 1996 with a starting crew of 20 employees, is a global core supplier to market-leading beverage and food companies.

We equip production and bottling plants (especially breweries and soft drink manufacturers) with state-of-the-art technology.



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**SYSCONA**  
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