

# DURAN®

## AUTOCLAVE BOTTLE AND PUSH-ON CAP SYSTEM

NEW

The safer, faster solution for laboratory sterilization



**DWK LIFE SCIENCES**  
DURAN WHEATON KIMBLE

# DURAN®

## AUTOCLAVE BOTTLE AND PUSH-ON CAP SYSTEM

### Steam sterilization – a proven method for sterilizing liquids

Steam sterilization is one of the most reliable and widely adopted methods for ensuring **liquid sterility**. Typically performed in an **autoclave**, the process works by exposing the material directly to steam at the required temperature and pressure for a defined period.

When autoclaving liquids in glass bottles, it is essential that screw closures are only loosely applied. If bottles are sealed tightly, pressure can build up, potentially leading to breakage

or even explosive failure. **Safe autoclaving** of sealed bottles is only possible if the autoclave is equipped with **support pressure compensation**.

Alternatives to screw closures include vented caps and ported caps that can accommodate small sterile-venting filters. While effective, such closures may pose challenges for validation in GLP processes and should be carefully evaluated before use.

### DURAN® Autoclave Bottle and Cap – safe, simple, and reliable

The **DURAN® Autoclave Bottle and Push-on Cap System** provides a convenient and secure solution for steam sterilization of liquid media, eliminating the need for pre- or post-autoclaving adjustments.

Available in three sizes, the DURAN® Autoclave Bottle is paired with a self-venting, push-on cap, ensuring safe and efficient

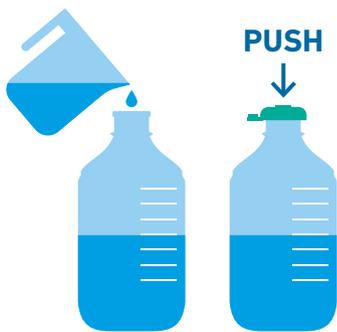
sterilization. Manufactured from **DURAN® borosilicate 3.3 glass**, these bottles offer exceptional thermal shock resistance, making them a trusted choice for applications where repeatable steam sterilization is essential. The accompanying Autoclave Push-on Cap is molded from a high-quality natural rubber formulation, delivering both reliability and peace of mind.

### Suitability of bottle closures for steam sterilization



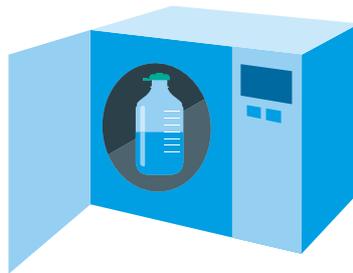
## How the DURAN® Autoclave Push-on Cap works

The Autoclave Push-on Cap fits securely over the specially designed rim of the DURAN® Autoclave Bottle. During the autoclave cycle, it allows safe venting of steam and air. As the bottle cools, a vacuum forms and the cap automatically seals, with the concave center providing a clear visual check of integrity. For easy access, the push-on cap can be removed via the side tab, minimizing the risk of contact with sterile contents.



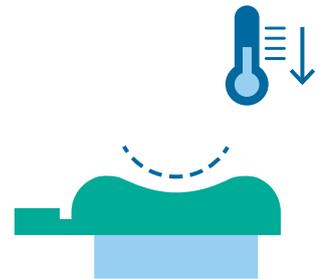
### Preparation

Fill the bottle with liquid media up to 75% of its capacity, then push on the cap.



### Sterilization

Place the bottle in the autoclave. During the cycle, steam is vented automatically through the valve of the cap.



### Post-Cycle

As the bottle cools, the valve closes, creating a vacuum inside. The center of the cap becomes concave, providing a visual indication of the hermetic seal.

## Applications

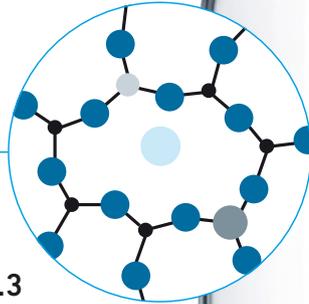
- Steam sterilization of liquid media and reagents
- Media preparation for anaerobic microbiology
- Sterilizing animal drinking water in gnotobiology facilities



Specially designed bottle neck fits **self-venting Push-on Cap** for safe sterilization

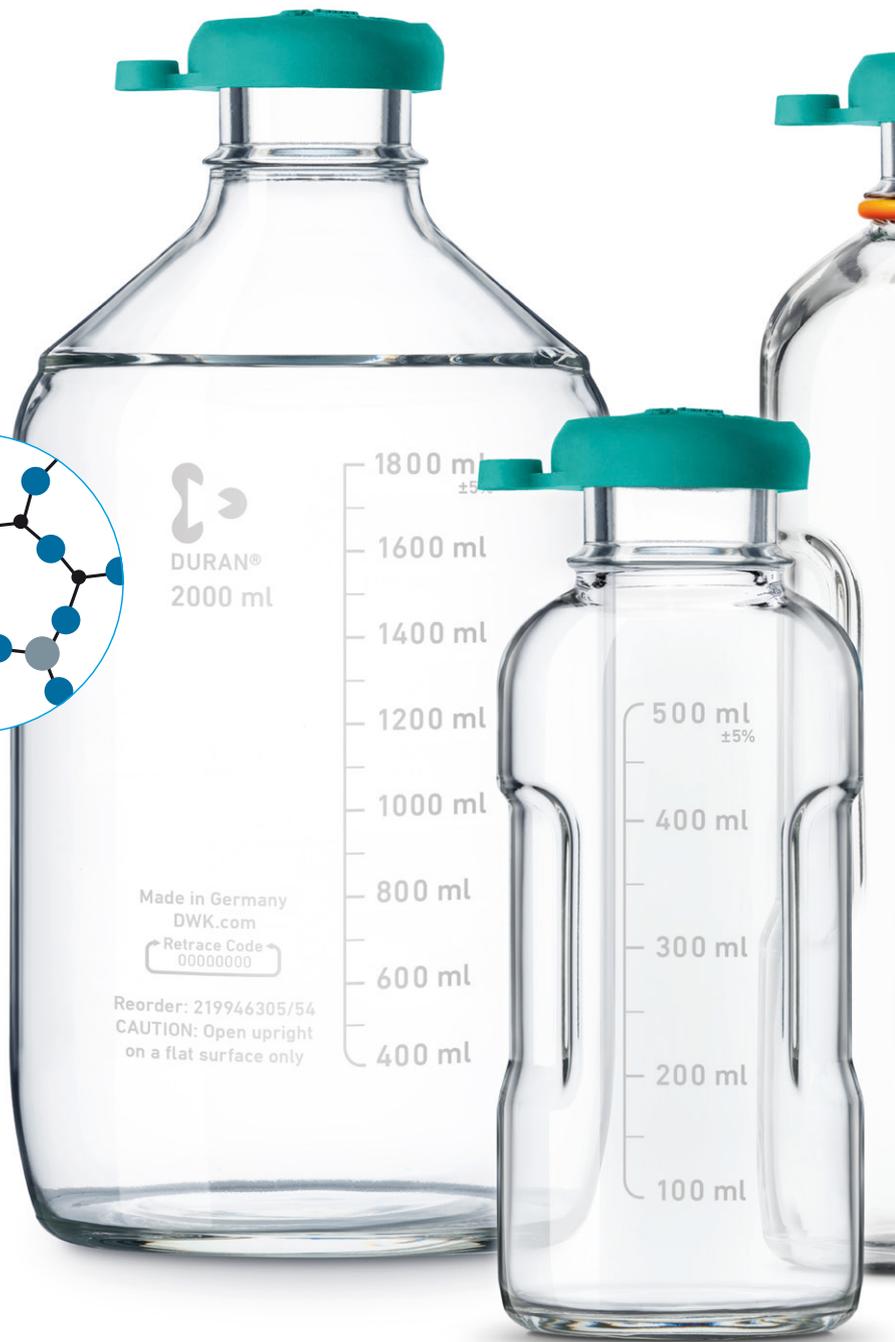
**Push-on natural rubber cap** for simple, secure, and easy sealing

Autoclavable at 121 °C, for **reliable steam sterilization**



Made from **DURAN® Borosilicate Glass 3.3** with outstanding thermal and chemical resistance

Lot-specific **Retrace Code** for full manufacturing traceability and certification



\*Applicable to the 500 and 1000 ml bottles only



**Optional:**  
**Colorful bottle tags** –  
 an elegant solution  
 to the marking  
 of bottles



Durable **white print**  
 with long lasting,  
 easy-to-read markings

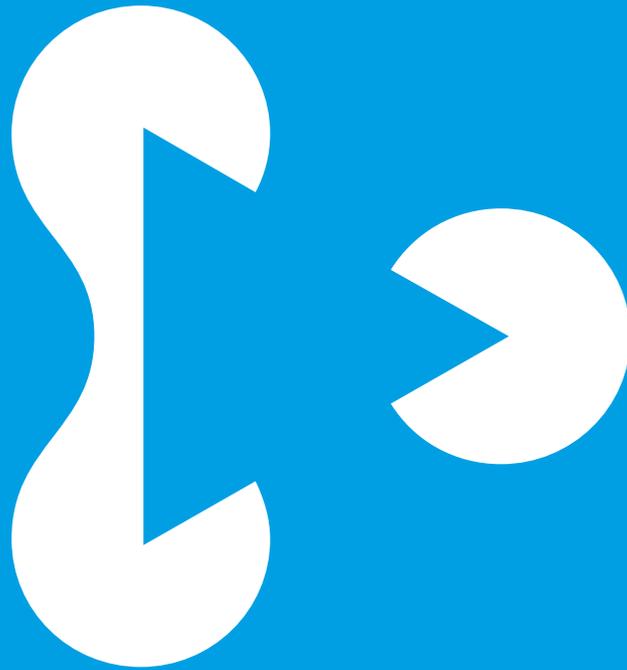
**Ergonomic design**  
 with grip zone  
 for safer, more  
 comfortable bottle  
 handling\*

## The DURAN® Autoclave Bottle and Push-on Cap system benefits:

- **Minimized Sterility Risk**  
 Prevents contamination by minimizing manual interventions.
- **Enhanced User Safety**  
 Reduces operator risk by removing manual closure steps during post-autoclave handling.
- **Easy Identification**  
 Labels and color-coded bottle tags ensure clear, organized identification in the lab.
- **Optimized Space and Ergonomics**  
 Slim design and ergonomic grip zones improve space utilization and handling comfort.\*
- **Time Efficiency**  
 Eliminates manual cap tightening, saving time and improving autoclaving efficiency.
- **Streamlined Ordering and Inventory**  
 Available in matched quantities for easier ordering and inventory management.

## Ordering Information

Description	Pack Format	Cat. No.
DURAN® Autoclave Bottle with Push-on NR caps <b>500 ml</b>	4 bottles & 4 caps	219944456
DURAN® Autoclave Bottle with Push-on NR caps <b>1000 ml</b>	4 bottles & 4 caps	219945452
DURAN® Autoclave Bottle with Push-on NR caps <b>2000 ml</b>	1 bottle & 4 caps	219946354
DURAN® Autoclave Push-on NR Cap (Replacement caps)	4 caps	292062906
DURAN® Autoclave Push-on NR Cap (Replacement caps) Bulk pack	100 caps	292063002
DURAN® YOUTILITY® GL 45 Bottle Tag, Orange	20	292432826
DURAN® YOUTILITY® GL 45 Bottle Tag, Yellow	20	292432834
DURAN® YOUTILITY® GL 45 Bottle Tag, Green	20	292432842
DURAN® YOUTILITY® GL 45 Bottle Tag, Blue	20	292432859
DURAN® YOUTILITY® GL 45 Bottle Tag, Purple	20	292432867
DURAN® YOUTILITY® GL 45 Bottle Tag, Black	20	292432875
DURAN® YOUTILITY® Blank Laboratory Labels	100	294010203



Excellence in your hands

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