



DURAN Autoclave Bottle And Push-On Cap System

The safer, faster solution for laboratory sterilization



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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 break-

age 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

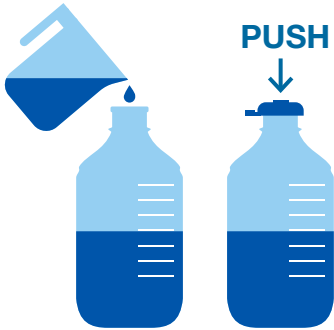
sterilization. Manufactured from **DURAN borosilicate 3.3 glass**, these bottles offer exceptional thermal shock resistance, making them a trusted choice for applications where repeatable steam sterilization is essential. The accompanying Autoclave Push-on Cap is molded from a high-quality natural rubber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

Suitability of bottle closures for steam sterilization



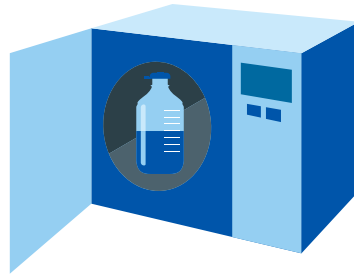
How the DURAN Autoclave Push-on Cap works

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.



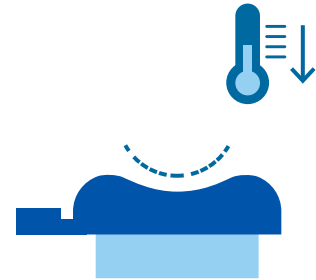
Preparation

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

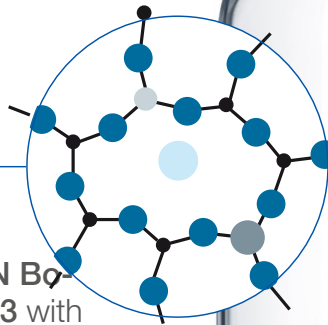
- Steam sterilization of liquid media and reagents
- Media preparation for anaerobic microbiology
- Sterilizing animal drinking water in gnotobiology facilities

Autoclavable at 121 °C, for reliable steam sterilization



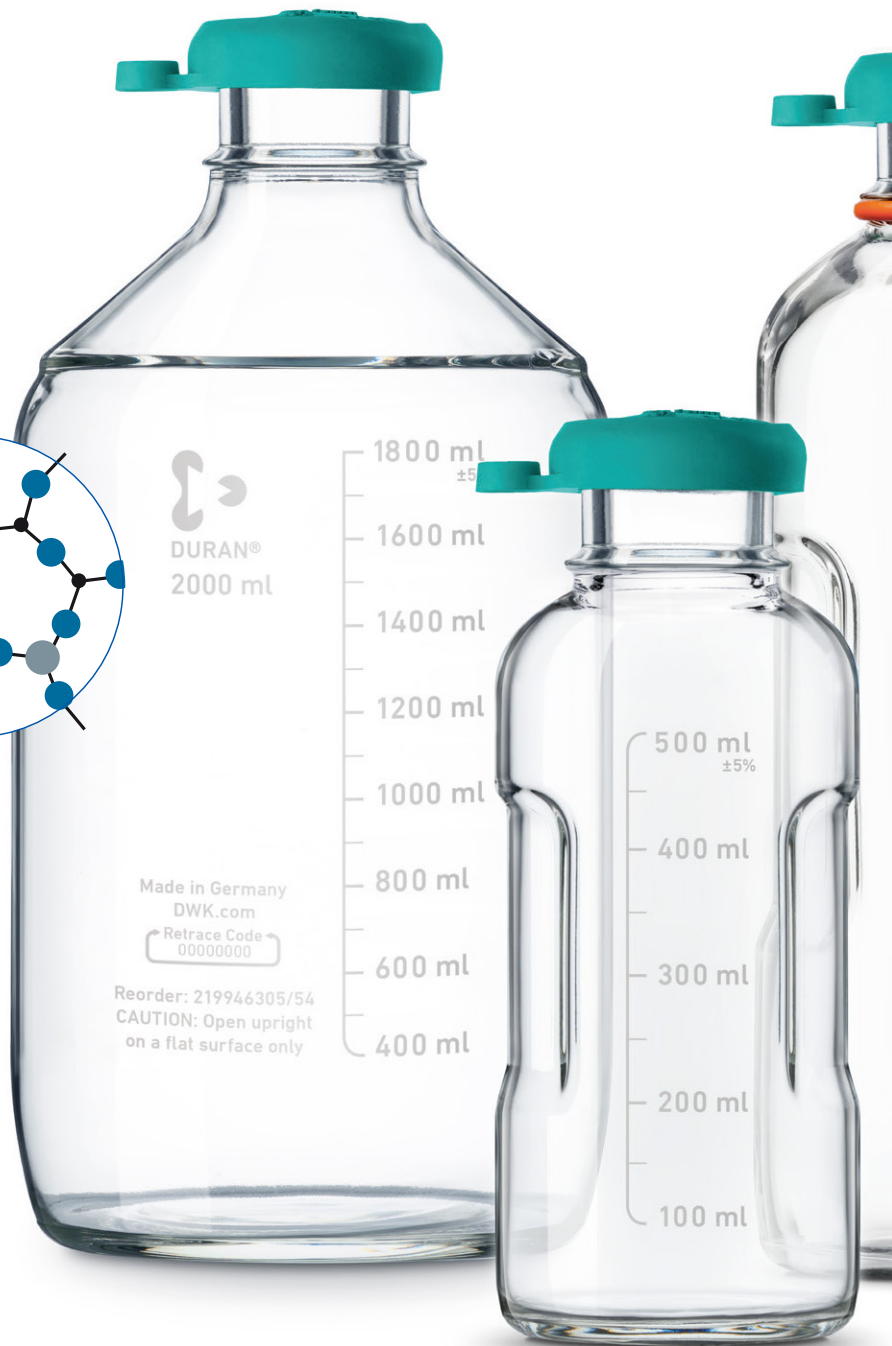
Specially designed bottle neck fits **self-venting Push-on Cap** for safe sterilization

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



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
DURAN Autoclave Bottle with Push-on NR caps 500 ml	4 bottles & 4 caps
DURAN Autoclave Bottle with Push-on NR caps 1000 ml	4 bottles & 4 caps
DURAN Autoclave Bottle with Push-on NR caps 2000 ml	1 bottle & 4 caps
DURAN Autoclave Push-on NR Cap (Replacement caps)	4 caps
DURAN Autoclave Push-on NR Cap (Replacement caps) Bulk pack	100 caps
DURAN YOUTILITY GL 45 Bottle Tag, Red	20
DURAN YOUTILITY GL 45 Bottle Tag, Orange	20
DURAN YOUTILITY GL 45 Bottle Tag, Yellow	20
DURAN YOUTILITY GL 45 Bottle Tag, Green	20
DURAN YOUTILITY GL 45 Bottle Tag, Blue	20
DURAN YOUTILITY GL 45 Bottle Tag, Purple	20
DURAN YOUTILITY GL 45 Bottle Tag, Black	20
DURAN YOUTILITY GL 45 Bottle Tag, White	20
DURAN YOUTILITY Blank Laboratory Labels	100



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