DURAN®

BOTTLE CAPS & CONNECTION SYSTEMS

PART OF THE DURAN® BOTTLE SYSTEM

DURAN WHEATON KIMBLE
Excellence in your hands
THE PERFECT MATCH – FROM STANDARD TO SPECIAL

In scientific procedures, nothing should be left to chance. Factors such as functionality, efficiency and cost-effectiveness in laboratories can be affected by apparently simple elements such as bottle caps and connection systems.

DURAN® offers a comprehensive product range of precision closure systems, starting with high-quality standard caps suitable for numerous scientific applications.

Our range also includes identification aids, special closures for sterilization processes, caps made of high performance materials for demanding applications, connection systems, security caps and transportation accessories. DURAN® caps and connection systems fit most DIN standard laboratory bottles made by other manufacturers.

Find out more:
www.duran-bottle-system.com
THE EVOLUTION OF THE DURAN® BOTTLE SYSTEM

Starting with the ORIGINAL in 1972, the DURAN® laboratory bottles have continued to evolve to meet the diverse needs and applications of scientists and researchers around the world. The borosilicate glass 3.3 bottles are now available in the most comprehensive range of volumes and formats.

DURAN® BOTTLE ACCESSORIES

A range of dedicated accessories that work perfectly with the DURAN® laboratory bottles. DURAN® accessories enable practical color coding, product labelling and identification. Most are reusable and long lasting just like the DURAN® bottles.

DURAN® GL 45 BOTTLE CARRYING SYSTEM

Click and Carry! Our latest innovation – a modular bottle carrying system that focuses on the safety and convenience of users in the laboratory. Find out more on page 10
SELECT THE BEST COMPONENTS FOR YOUR NEEDS

STANDARD

These reliable components are made of food-grade polypropylene (PP) and are suitable for many laboratory applications. Our screw caps and pouring rings are fully compatible with DIN GL bottle threads.

HIGH PERFORMANCE

For more demanding processing conditions, or when the product requires a higher level of protection from the environment or contamination. Ideal for demanding applications in the pharmaceutical industry.

STEAM STERILIZATION

Membrane caps are recommended when sterilizing media. These components improve the safety and ease-of-use of the laboratory bottles during autoclaving or hot-air sterilization, and protect the contents from contamination.

CONNECTION

The robust and durable DURAN® tubing connection systems allow the easy transfer of liquids under controlled conditions, reducing the risk of contamination. Connector elements are also available for probes and stirrers.

SECURITY AND TRANSPORTATION

When extra protection is required to ensure the safety of the contents and users during storage or transport. For example, by blocking ultraviolet light, ensuring contents aren’t tampered with or making transport easier and safer.

IDENTIFICATION

The accurate identification of samples and reagents is integral to the scientific process. These components provide simple color coding or labelling of laboratory bottles.
<table>
<thead>
<tr>
<th>NECK SIZE</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>GL 25</strong></td>
<td><strong>GL 32</strong></td>
</tr>
</tbody>
</table>

**Original GL Screw Cap**  
Blue, PP, Linerless

**High Temperature Screw Cap**  
Red, PBT, Cap liner

**Aperture Screw Cap**  
Colorless, PFA, Cap liner

**Premium Cap**  
Colorless, PFA, Cap liner

**PURE Premium Screw Cap**  
Colorless, PFA, Cap liner

**Screw Cap**  
Membrane Vented  
Blue, PP

**Multiport Connector Cap**  
2-, 3- or 4-ports, PTFE

**Original GL Screw Cap**  
Blue, PP, Linerless

**Original Pouring Ring**  
Blue, PP

**High Temperature Screw Cap**  
Red, PBT, Cap liner

**Pouring Ring**  
Red, ETFE

**Aperture Screw Cap**  
Red, PBT

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*The GL 25 Multiport Connector Caps fit the smaller DURAN® bottles and are ideal for adding or sampling liquids. Constructed from food contact safe materials.*

*PP = Polypropylene  PBT = Polybutylene terephthalate  PFA = Perfluoroalkoxy polymers  ETFE = Ethylene-tetrafluoroethylene copolymer  PTFE = Polytetrafluoroethylene*
### NECK SIZE

#### GL 45

<table>
<thead>
<tr>
<th>Standard</th>
<th>High Performance</th>
<th>Steam Sterilization</th>
<th>Security and Transportation</th>
<th>Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original GL Screw Cap&lt;br&gt;Blue, PP, Linerless</td>
<td>Multiport Connector Cap&lt;br&gt;2- or 3-ports, Stainless Steel</td>
<td>Multiport Connector Cap&lt;br&gt;4-ports, Stainless Steel</td>
<td>Tamper Evident Screw Caps&lt;br&gt;Yellow or Red, PP, Linerless or Cap liner</td>
<td>Original GL Screw Cap&lt;br&gt;Yellow, Green or Grey, PP, Linerless</td>
</tr>
<tr>
<td>Original Pouring Ring&lt;br&gt;Blue, PP</td>
<td>Multiport Connector Cap&lt;br&gt;2 Hose Connectors&lt;br&gt;Blue, PP</td>
<td>Screw Cap&lt;br&gt;2 Hose Connectors&lt;br&gt;Blue, PP</td>
<td>Original GL Screw Cap&lt;br&gt;Yellow, Green or Grey, PP, Linerless</td>
<td>Pouring Ring&lt;br&gt;Yellow, Green or Grey, PP</td>
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<tr>
<td>YOUTILITY® Screw Cap&lt;br&gt;Cyan, PP, Linerless</td>
<td>Multiport Connector Cap&lt;br&gt;HPLC 3-port&lt;br&gt;Blue, PTFE</td>
<td>Multiport Connector Cap&lt;br&gt;HPLC 3-port&lt;br&gt;Blue, PTFE</td>
<td>YOUTILITY® Bottle Tags&lt;br&gt;Various colors, Silicone</td>
<td>YOUTILITY®&lt;br&gt;Printable Labels, PS</td>
</tr>
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<td>YOUTILITY® Pouring Ring&lt;br&gt;Cyan, PP</td>
<td>Premium Cap&lt;br&gt;Colorless, PFA, Cap liner</td>
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</tr>
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<td>High Temperature Screw Cap&lt;br&gt;Red, PBT, Cap liner</td>
<td>Pouring Ring&lt;br&gt;Red, ETFE</td>
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<tr>
<td>Screw Cap Membrane Vented&lt;br&gt;Blue, PP</td>
<td>YOUTILITY® Screw Cap Membrane Vented&lt;br&gt;Cyan, PP</td>
<td>Multiport Connector Cap&lt;br&gt;1-port, Stainless Steel</td>
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ETFE = Ethylene-tetrafluoroethylene copolymer  
PTFE = Polytetrafluoroethylene  
PFA = Perfluoroalkoxy polymers  
PS = Polyester
By using an innovative 3D metal printing process, we have optimized the design of the Multiport Connector Cap for liquid transfer applications.

The DURAN® bromobutyl rubber stopper provides a gas tight seal for all GL 45 laboratory bottles. Bromobutyl rubber is essentially impermeable to most gases, and provides a controlled environment inside the glass bottle for oxygen sensitive materials.
The DURAN® TILT silicone sleeve blocks damaging ultraviolet (UV) light, protects the glass surface from damage, and facilitates safer handling.
The DURAN® Stirred Reactor is ideal for the widest possible range of mixing processes in laboratories, e.g., mixing liquids or dissolving solids. The variable stirring shaft can be used for 500 ml, 1000 ml and 2000 ml DURAN® GSL 80® laboratory bottles and can be driven with standard magnetic stirrers.

NECK SIZE

**GLS 80®**

In addition to the benefits of a larger mouth, such as hassle-free filling, emptying, and cleaning, the GLS 80® caps have a special fast closing thread.

- **Screw Cap** • Blue, PP, Linerless
- **Pouring Ring** • Blue, PP
- **Screw Cap** • White, PSU, Cap liner
- **Pouring Ring** • White, PTFE
- **Screw Cap Membrane Vented** • Blue, PP
- **Multiport Connection Cap** • 4-ports, Blue, PP
- **Stirred Reactor**
- **Connection Cap System for Overhead Mixer** • PP

*PP = Polypropylene, PS = Polyester, PES = Polyethersulfone, PTFE = Polytetrafluorethylene, PSU = Polysulfone, PFA = Perfluoroalkoxy polymers*
DURAN® GL 45 BOTTLE CARRYING SYSTEM

The new modular Bottle Carrying System fits standard laboratory bottles that have a GL 45 neck finish and is compatible with four bottle sizes: 2, 5, 10 and 20 litres. It is ergonomically designed, and offers health & safety benefits to the user and allows easy and safe transport of bottles around the laboratory or production facility. It makes pouring liquids from the larger bottles more comfortable and safer. All materials are fully autoclavable.

Carrying Handle
- Carrying handle is suitable for bare or gloved hands
- Handle strap is flexible enough to allow pouring

GL 45 Bottle Collar
- The collar is securely attached by pushing down over the GL 45 thread with 4 teeth that lock under transfer ring.
- The collar is only removable by cutting – so attachment is 100% secure in use
- A cut line indicator for removal of collar when required

Silicone Support Base
- Structural support for base of larger 5, 10 and 20 litre bottles
- Protection of glass bottle base from impact during lifting or handling
- Acts as a spacer to protect glass from contact with Metal Dolly
- Moulded-in holes minimize liquid traps and allow maximum steam penetration during autoclaving

Pouring Handle
- Ergonomically shaped
- Anti-slip grip

Horizontal Straps
- Durable stitched construction
- Made from “anti-slip” material

Tightening Strap
- With indicator arrow
- End modified to prevent unthreading

Lot Specific Retrace Code
for traceability and certification

Optional Extra: Metal Dolly
- Stainless steel dolly for 10 or 20 litre bottles (2 sizes only)
- Fully compatible with carrying system
- Easy to clean, crevice-free construction
- Optional handle is available for easier handling
FOR EASY AND SAFE CARRYING & POURING

Fast and secure tightening of the polypropylene straps with two side strap adjusters for the larger 5, 10 and 20 litre bottles

4 sizes available: 2 L / 5 L / 10 L / 20 L

Safe and controlled pouring using handle
- Safer pouring of liquids using a second lower “Pouring Handle” located on the side strap (Available on the 5 and 10 litre carriers only)

Easy and safe carrying using handle
- Handle attaches at the neck and fully supports the base

2 L bottle carrier in 4 colors for color coding

Find out more: www.duran-bottle-system.com