

DURAN®

# BOTTLE CAPS & CONNECTION SYSTEMS

PART OF THE **DURAN®** BOTTLE SYSTEM



DURAN  
WHEATON  
KIMBLE

Excellence in your hands



# DURAN® BOTTLE CAPS & CONNECTION SYSTEMS

## 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.

ONE  
**DURAN®**  
BOTTLE  
SYSTEM



Find out more:  
[www.duran-bottle-system.com](http://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.



## FOR ALL YOUR NEEDS



## 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.



NECK SIZE

GL 25

Original  
GL Screw Cap  
Blue, PP, Linerless



High Temperature  
Screw Cap  
Red, PBT, Cap liner



Aperture  
Screw Cap  
Red, PBT



Premium Cap  
Colorless, PFA,  
Cap liner



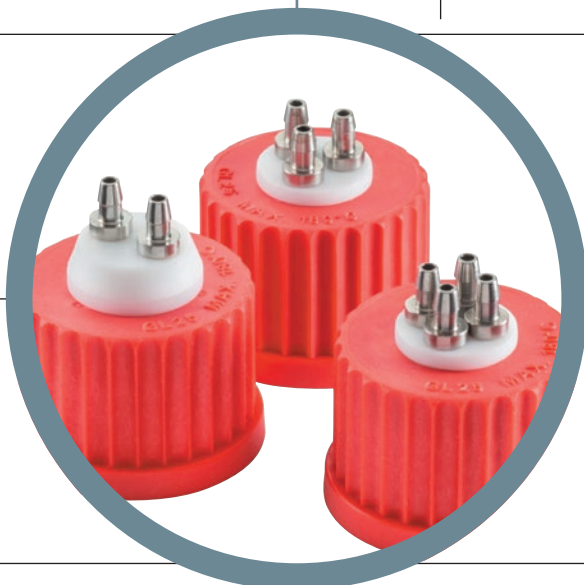
PURE Premium  
Screw Cap  
Colorless, PFA,  
Cap liner



Screw Cap  
Membrane Vented  
Blue, PP



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



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 = Polytetrafluorethylene

NECK SIZE

GL 32

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




Screw Cap  
Membrane Vented  
Blue, PP





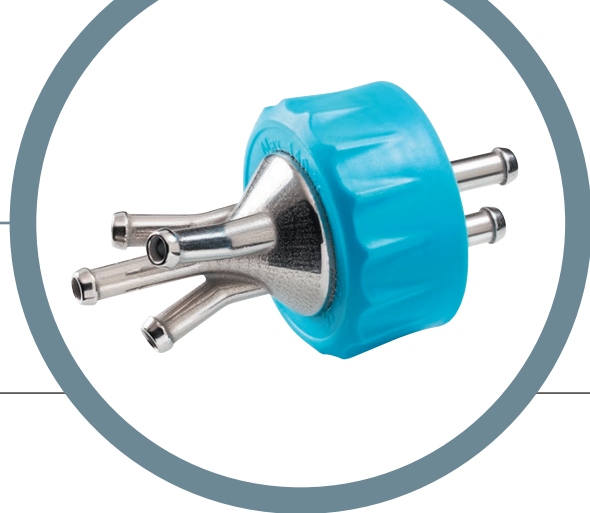
NECK SIZE

# GL 45

STANDARD	<b>Original GL Screw Cap</b> Blue, PP, Linerless	<b>Original Pouring Ring</b> Blue, PP	<b>YOUTILITY® Screw Cap</b> Cyan, PP, Linerless	<b>YOUTILITY® Pouring Ring</b> Cyan, PP	
	<b>High Temperature Screw Cap</b> Red, PBT, Cap liner	<b>Pouring Ring</b> Red, ETFE	<b>Aperture Screw Cap</b> Red, PBT	<b>Premium Cap</b> Colorless, PFA, Cap liner	
	<b>Screw Cap Membrane Vented</b> Blue, PP	<b>YOUTILITY® Screw Cap Membrane Vented</b> Cyan, PP	<b>Multiport Connector Cap 1-port</b> , Stainless Steel		
CONNECTION	<b>Multiport Connector Cap 2- or 3-ports</b> , Stainless Steel	<b>Multiport Connector Cap 4-ports</b> , Stainless Steel	<b>Screw Cap 2 Hose Connectors</b> Blue, PP	<b>Multiport Connector Cap 2- or 3-ports</b> , Blue, PP	<b>Multiport Connector Cap HPLC 3-port</b> Blue, PTFE
	<b>Tamper Evident Screw Caps</b> Yellow or Red, PP, Linerless or Cap liner	<div><div><b>DURAN® GL 45 BOTTLE CARRYING SYSTEM</b> Find out more on page 10</div></div>			
IDENTIFICATION	<b>Original GL Screw Cap</b> Yellow, Green or Grey, PP, Linerless	<b>Pouring Ring</b> Yellow, Green or Grey, PP	<b>YOUTILITY® Bottle Tags</b> Various colors, Silicone	<b>YOUTILITY® Printable Labels, PS</b>	

PP = Polypropylene PBT = Polybutylene terephthalate 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.

**Premium Pouring Ring**  
Colorless, PFA



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



**PURE Premium Lip Seal Cap**  
Colorless, PFA, Linerless



**Stopper**  
Grey, Bromobutyl rubber



**Septum**  
Colorless, PTFE coated  
Silicone



**Multiport Connector Cap  
HPLC 4-port**  
Blue, PP



**Screw Cap  
for pH Sensor**  
Red, PBT



**Replacement  
Cap Liner**  
PTFE coated  
Silicone



**Septum**  
Colorless,  
Silicone



**Stirred Reactor**



**Screw Cap with  
Temperature Probe  
Gland, Blue, PP**



**Screw Cap with  
Temperature Probe  
Holder, Blue, PP**








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.



NECK SIZE

# GL 56

STANDARD	<b>TILT Screw Cap</b> • White, PP, Linerless	
HIGH PERFORMANCE	<i>The DURAN® TILT silicone sleeve blocks damaging ultraviolet (UV) light, protects the glass surface from damage, and facilitates safer handling.</i>	
		
STEAM STERILIZATION	<b>Screw Cap Membrane Vented</b> • White, PP	
CONNECTION	<b>TILT Bottle Top Filter Unit</b> • Clear, PES	<b>TILT Adaptor</b> • White, PTFE GL 56 to GL 45
		
SECURITY AND TRANSPORTATION	<b>TILT Light Shield</b> • White, Silicone	
IDENTIFICATION	<b>TILT Bottle Tags</b> Orange, Yellow, Blue or Purple, Silicone	<b>TILT Cap Labels</b> • White, PS
		



## 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**



**PURE Screw Cap • White, PSU, Cap liner**



**Screw Cap Membrane Vented • Blue, PP**



**Multiport Connection Cap • 4-ports, Blue, PP**



**Stirred Reactor**



**Connection Cap System for Overhead Mixer • PP**



*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.*





# 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

## Tightening Strap

- With indicator arrow
- End modified to prevent unthreading

## Pouring Handle

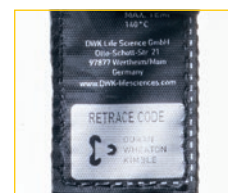
- Ergonomically shaped
- Anti-slip grip

## 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

## Horizontal Straps

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

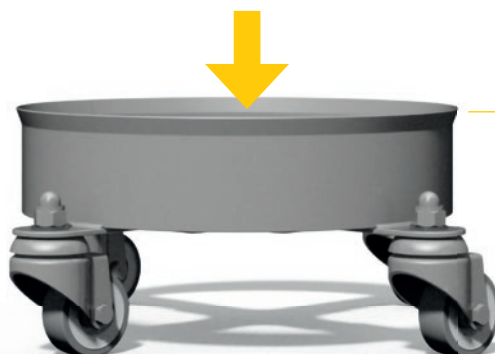


**Lot Specific Retrace Code**  
for traceability and certification



## 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



## 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



## Easy and safe carrying using handle

- Handle attaches at the neck and fully supports the base



## 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)

## Fast and secure tightening

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



## 2 L bottle carrier in 4 colors

for color coding

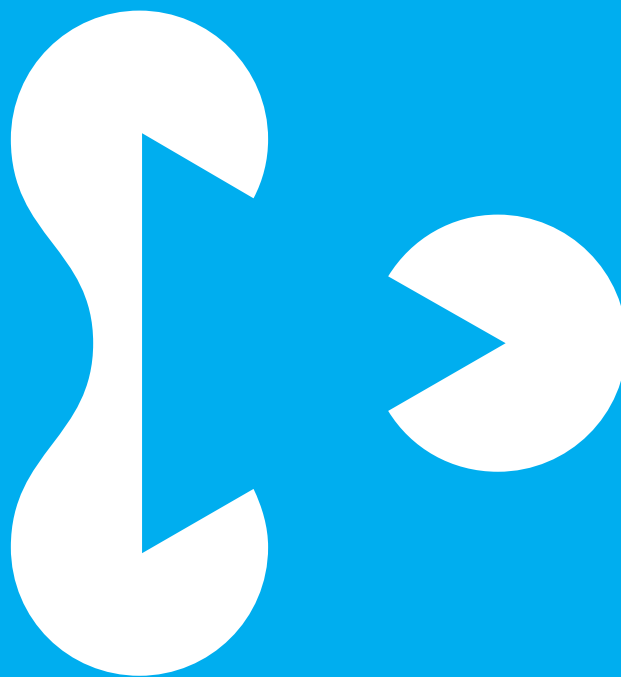


4 sizes available:  
2 L / 5 L / 10 L / 20 L

Find out more:  
[www.duran-bottle-system.com](http://www.duran-bottle-system.com)







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