



DURAN® GLS 80®
GLASS BOTTLES WITH WIDE
NECK

Large, wide neck ideal for filling
and pouring.

GREATER CONVENIENCE FOR EVERYDAY LAB WORK

We have extended our DURAN® laboratory glassware range. Our new wide neck glass bottles with large, 80 mm diameter neck size are available in eight different sizes. All sizes are also available in amber for light-sensitive media.

This range also features a selection of quick-release caps.



ENDLESS APPLICATIONS

DURAN® GLS 80® wide neck glass bottles are extremely versatile: ideal for pouring, filling, mixing, preparing, storing, transporting, dispatching, taking samples in the field and hot filling, whether in the laboratory or in production.



SAFE AND EASY TO USE

The DURAN® GLS 80® laboratory glassware range features a specially developed screw thread. The matching quick-release cap allows the bottle to be easily opened and closed with a minimum of turns.

The 80 mm wide neck facilitates easy and safe charging and removal of powders, pastes, granules and liquids. Spoons, spatulas and tweezers can be manipulated with ease. Even large-volume funnels can be inserted into the bottles without any difficulty. The wide neck also makes cleaning the bottles particularly easy.

SPECIAL FEATURES OF THE DURAN® GLS 80 WIDE NECK GLASS BOTTLE

Wide neck screw thread – 80 mm diameter, special thread design for rapid opening and closing.

Inert and chemically resistant – exceptional properties of DURAN® eliminate problems with ion leaching.

Mechanical strength – the sturdy design of these wide neck bottles enhances safety and service life.

Sterilisable – excellent thermal properties for autoclaving and dry sterilization.

Transparency – contents and volume can be visually checked with ease.

Traceability – the eight-digit batch code allows the bottles to be traced back to the point of production, including the matching batch. The end-user can use the corresponding item number to retrieve a batch and quality certificate for any DURAN® laboratory bottle at any time via the Internet.

Stability – the large, stable base area allows for safe and easy storage.

Labelling – provided with a printed white panel for labelling the contents.

Graduated – convenient, easy-to-read graduations indicating volume.

EU Design
No. 381983



SPECIAL ADVANTAGES OF THE GLS 80® QUICK-RELEASE CAP

User-friendly – the special thread design enables the bottle to be opened and closed quickly with less than two turns of the cap.

Temperature-resistant – the polypropylene cap is autoclavable up to 140° C.

Matching pouring ring – for drip-free pouring



The DURAN® GLS 80® wide neck glass bottle is available in three versions – simply choose the most suitable bottle for your requirements.

THE VERSATILE DURAN® GLS 80® BOTTLE

The wide opening for safe and easy handling of powders and liquids makes the DURAN® GLS 80® bottle a versatile partner for all routine laboratory applications.

Choose from six different bottle sizes, complete with quick-release plastic cap and pouring ring.



Description	Capacity ml	diameter mm	height* mm	Pack unit	Item no.
GLS 80® laboratory bottle	250	95	105	10	21 860 36 5
GLS 80® laboratory bottle	500	101	148	10	11 126 27
GLS 80® laboratory bottle	1,000	101	218	10	11 127 13
GLS 80® laboratory bottle	2,000	136	248	10	11 127 15
GLS 80® laboratory bottle	3,500	160	271	1	21 860 69 5
GLS 80® laboratory bottle	5,000	182	311	1	11 139 49
GLS 80® laboratory bottle	10,000	227	395	1	11 139 50
GLS 80® laboratory bottle	20,000	288	483	1	11 139 51
GLS 80® pouring ring, blue, PP		77	7	10	11 601 66

* without
cap

THE LIGHT-PROOF AMBER DURAN® GLS 80® BOTTLE

The amber DURAN® laboratory bottle protects media from light in the 300 nm – 500 nm wavelength range. This makes it particularly useful for working with light-sensitive media and for the long-term storage of substances.

- UV protection up to approx. 500 nm light wavelength
- only the outer surface of the glass is tinted, ensuring that the DURAN® properties on the inside remain unchanged
- special heat treatment ensures that the amber tint is durable and chemically resistant
- available in sizes ranging from 250 ml to 20,000 ml

Description	Capacity ml	diameter mm	height* mm	Pack unit	Item no.
GLS 80® laboratory bottle, amber	250	95	105	10	21 866 36 5
GLS 80® laboratory bottle, amber	500	101	148	10	11 601 46
GLS 80® laboratory bottle, amber	1,000	101	218	10	11 601 47
GLS 80® laboratory bottle, amber	2,000	136	248	10	11 601 48
GLS 80® laboratory bottle, amber	3,500	160	271	1	21 866 69 5
GLS 80® laboratory bottle, amber	5,000	182	311	1	11 601 49
GLS 80® laboratory bottle, amber	10,000	227	395	1	11 601 50
GLS 80® laboratory bottle, amber	20,000	288	483	1	11 601 51



THE PLASTIC-COATED DURAN® GLS 80® PROTECT

Ideal for handling particularly valuable or dangerous materials. The plastic coating (PU) on DURAN® GLS 80® Protect provides effective protection during routine laboratory work and retains the contents if the glass becomes damaged.

- scratch-, leak- and shatter-resistant
- high transparency
- temperature range – 30° C to + 140° C
- autoclavable
- suitable for use in microwaves
- stable and durable

Description	Capacity ml	diameter mm	height* mm	Pack unit	Item no.
GLS 80® Laboratory bottle, protect	250	95	105	10	21 865 36 5
GLS 80® Laboratory bottle, protect	500	101	148	10	11 601 52
GLS 80® Laboratory bottle, protect	1,000	101	218	10	11 601 63
GLS 80® Laboratory bottle, protect	2,000	136	248	10	11 601 64
GLS 80® Laboratory bottle, protect	3,500	160	271	1	21 865 69 5
GLS 80® Laboratory bottle, protect	5,000	182	311	1	11 601 65

*without
cap



DURAN® FOR GREATER SAFETY

Chemical resistance

- hydrolytic-resistant to DIN ISO 719, Class I
- neutral glass/ Type I glass in compliance with USP/EP
- acid-resistant to DIN 12 116, Class I
- alkali-resistant to DIN ISO 695, Class 2

Temperature resistance

- up to max. 500° C
- high thermal shock resistance (Δ 100 K)
- ideal for hot filling and carrying out sterilisation procedures (autoclaving)
- suitable for use in microwaves

Quality control

Our professional quality control features

- uniform wall thickness distribution
- bubble- and streak-free glass
- precise dimensions and narrow tolerances



There are several good reasons for choosing DURAN® GLS 80® wide neck glass bottles. Compared with plastic bottles, DURAN® glass bottles with their proven material properties offer a wealth of benefits.

DURAN® GLS 80® wide neck bottles: see for yourself!

Attach tubes simply and conveniently using the flexible modular system – ideal for transferring liquids.

THE FLEXIBLE MULTI-PORT SYSTEM FOR DURAN® GLS 80® WIDE NECK GLASS BOTTLES

The multi-port system consists of a GLS 80® screw cap with four ports. The tubes are fed through these ports and secured with inserts and screw connections. There is a choice of 5 inserts, each with different internal diameter depending on the application. Unused ports can be fitted with a blanking cap, if necessary. Sterile pressure compensation can be achieved using the membrane filter set (0.2 µm pore size).

The inserts and GL 18 screw connections hold the tubes securely in place, eliminating problems caused by slippage, e. g. in HPLC plants. The sealed cap system reduces evaporation of media and keeps out impurities.

- standard GLS 80® screw thread
- five different tube diameters
- versatile components
- blanking caps for unused ports
- made from proven PP and PTFE
- autoclavable (temperature-resistant up to approx. 140° C)
- flexible, modular system



Item no. 1160176

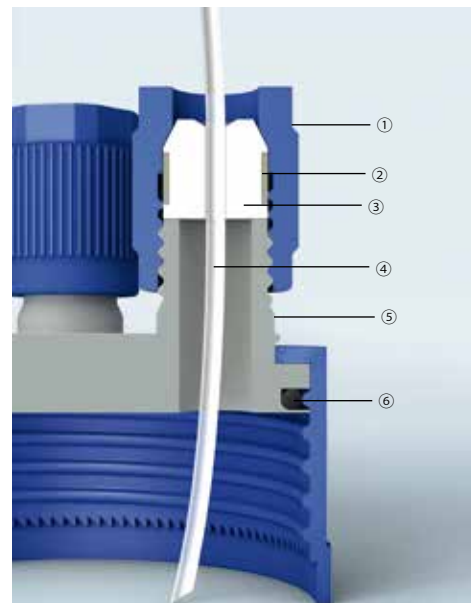


SAMPLE ORDER:

You want to fit two DURAN® GLS 80® bottles with a 4-port system. You want to work with two different tube diameters (3.2 mm and 10 mm) and pressure equalisation. The redundant fourth port is fitted with a screw cap.

You will need the following individual components (1, 2, 3 are shown in the illustration):

- Ⓐ GLS 80® screw cap with 4 ports
(item no. 1160176) 1x [pack unit 2 pieces]
- Ⓑ GL 18 screw cap for tube connection,
blue (item no. 1160174)
2x [pack unit 2 pieces]
- Ⓒ GL 18 insert for screw cap,
3.2 mm iØ, (item no. 1160169)
2x [pack unit 1 piece]
- Ⓓ GL 18 insert for screw cap,
10.0 mm iØ, (item no. 1160172)
2x [pack unit 1 piece]
- Ⓔ Pressure compensation set (complete),
(item no. 1160167) 2x [pack unit 1 piece]
- Ⓕ GL 18 screw cap, red
(item no. 1170682) 1x [pack unit 2 pieces]



Description	Thread	diameter mm	height* mm	Pack unit	Item no.
GL 18 screw cap with 4 ports	GLS 80®	86	~ 60	2	11 601 76
Insert for screw cap, iØ 3.2 mm	GL 18			1	11 601 69
Insert for screw cap, iØ 6.0 mm	GL 18			1	11 601 70
Insert for screw cap, iØ 8.0 mm	GL 18			1	11 601 71
Insert for screw cap, iØ 10.0 mm	GL 18			1	11 601 72
Insert for screw cap, iØ 12.0 mm	GL 18			1	11 601 73
Screw cap for tube connection, blue	GL 18			2	11 601 74
Pressure compensation set for 4-port	GL 18			1	11 601 67
Screw cap, red	GL 18			2	11 706 82

Schematic diagram of GLS 80® connection system

- ① Screw cap GL 18 (PP)
- ② Silicone sealing ring on insert
- ③ PTFE insert / tubing connector
- ④ Tubing (not supplied)
- ⑤ Port (PP)
- ⑥ O-ring seal

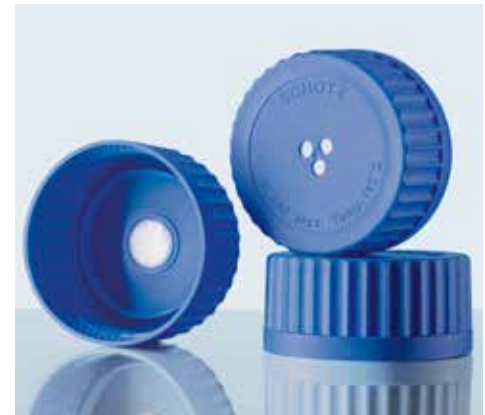
The membrane cap is both gas-permeable and liquid-tight.

THE PERMEABLE MEMBRANE CAP FOR DURAN® GLS 80® WIDE NECK GLASS BOTTLES

The membrane screw-cap features a sterile membrane for pressure compensation. The cap is ideal for autoclaving and for storing or transporting gas-forming substances. Since pressure compensation takes place through the membrane, the membrane cap can be screwed on tightly during autoclaving, significantly reducing the risk of contamination. Since the membrane prevents the entry of liquids and solids, the contents of the bottle remain sterile.

- for all GLS 80® screw threads
- made from proven PP material with welded-on PTFE membrane (0.2 µm)
- temperature-resistant to +140° C
- 2-way membrane with pressure equalisation from 0.1 bar
- ideal for autoclaving
- ideal for storing gas-forming media

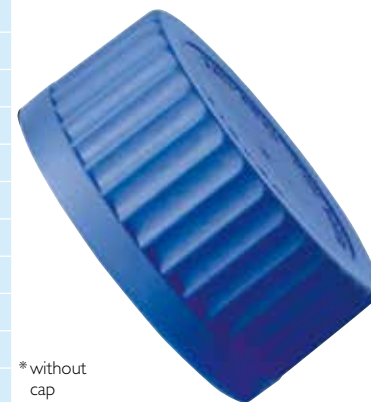
Description	Thread	diameter mm	height mm	Pack unit	Item no.
Membrane cap, blue, PP	GLS 80®	86	40	2	11 601 68



AT A GLANCE: PRODUCT OVERVIEW

Bottles

Description	Capacity ml	diameter mm	height* mm	Pack unit	Item no.
GLS 80® Laboratory bottle	250	95	105	10	21 860 36 4
GLS 80® Laboratory bottle	500	101	148	10	11 126 27
GLS 80® Laboratory bottle	1,000	101	218	10	11 127 13
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GLS 80® Laboratory bottle, protect	1,000	101	218	10	11 601 63
GLS 80® Laboratory bottle, protect	2,000	136	248	10	11 601 64
GLS 80® Laboratory bottle, protect	3,500	160	271	1	21 865 69 5
GLS 80® Laboratory bottle, protect	5,000	182	311	1	11 601 65



* without
cap

All DURAN® GLS 80® wide neck bottles, membrane caps and multi-port systems can be ordered directly from your laboratory supplier using the item numbers below.

Caps and accessories

Description	Thread	diameter mm	height mm	Pack unit	Item no.
Quick-release cap, PP	GLS 80®	86	40	10	11 127 16
Quick-release cap, PSU	GLS 80®	88,5	40	5	11 658 88
Pouring, blue, PP	GLS 80®	77	7	10	11 601 66
Membrane cap, PP	GLS 80®	86	40	2	11 601 68
GL 18 screw cap with 4 ports	GLS 80®	86	~ 60	2	11 601 76
Insert for screw cap, iØ 3.2 mm	GL 18			1	11 601 69
Insert for screw cap, iØ 6.0 mm	GL 18			1	11 601 70
Insert for screw cap, iØ 8.0 mm	GL 18			1	11 601 71
Insert for screw cap, iØ 10.0 mm	GL 18			1	11 601 72
Insert for screw cap, iØ 12.0 mm	GL 18			1	11 601 73
Screw cap for tube connection, blue	GL 18			2	11 601 74
Pressure equalisation set for 4-port	GL 18			1	11 601 67
Screw cap, red	GL 18			2	11 706 82





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