



DURAN GROUP
magic of precision



CONNECTION SYSTEMS FOR SCHOTT DURAN® LABORATORY BOTTLES

The professional connection
for transferring liquid media.



THE CHOICE IS YOURS!

Flexible connection systems for GL 45
SCHOTT DURAN® laboratory bottles ...



... or the complete system
SCHOTT DURAN® HPLC bottle



NEW

Choose from our new range – all systems facilitate the safe transfer of liquid media within an enclosed, sterile system. Ideal for chemical and biotechnological laboratories.

SCHOTT DURAN® HPLC LABORATORY BOTTLE: THIS IS HOW IT WORKS

The SCHOTT DURAN® HPLC bottle consists of a complete system. It is made up of the special SCHOTT DURAN® *pressure plus* laboratory bottle and a screw cap with four ports. The four ports make it possible to serve three stations at the same time from one container. At the same time, the fourth port can be used for sterile pressure equalization. The system is suitable for tube diameters of 1.6 mm (1/16 inch) and 3.2 mm (1/8 inch). Ports that are not in use can be closed with a silicone seal.

The SCHOTT DURAN® *pressure plus* bottle is pressure-resistant thanks to its special geometry. Its pressure resistance is TÜV-GS certified. The bottle has a retrace code for downloading a certificate of conformity from the internet. This contains not only the batch and manufacturing data but also additional information about standards and USP/FDA conformity.



YOUR ADVANTAGES

- The bottle has a special geometry according to ISO 4796, and is pressure/vacuum resistant in a range from -1 to $+1.5$ bar. The pressure resistance has been safety tested as per EN 1596 and is TÜV-GS certified.
- The cap is made of PTFE and PP and can be completely autoclaved together with the bottle, so that it can be repeatedly re-used. It is not necessary to take the system apart first.
- The optional silicone seals (available individually) can also be used as septum for subsequent addition of additives.
- Working in the enclosed system retains toxic gases in the bottle. Similarly, the evaporation of expensive substances can also be reduced.
- The system is suitable for universal use because the screw cap is based on the standardized ISO GL 45 thread.
- Practical complete system: the SCHOTT DURAN® HPLC laboratory bottle including 4-port screw cap is ready for immediate use (spare parts available individually).

EXAMPLES OF USE

- Feeding solvents (eluent) to HPLC machines
- Disposal of waste media
- Use in all self-contained systems entailing sterile transfer of culture media under pressure (e.g. fermenter).



Product name	Pack.Qty.	Art. No.
SCHOTT DURAN® HPLC bottle GL 45, 4 ports, 1000 ml complete (incl. screw cap and seals)	2 ea.	1129820
SCHOTT DURAN® bottle GL 45, 4 ports, 500 ml complete (incl. screw cap and seals)	2 ea.	1129821
Screw cap HPLC GL 45, 4 ports complete	2 ea.	1129812
Set of spares for HPLC screw cap	1 ea.	1129813
Pressure equalization set for 4-port cap (0.2 µm incl. membrane filter)	1 ea.	1137801
Spare membrane filter for pressure equalization set, 0.2 µm	2 ea.	1129819
Spare bottle SCHOTT DURAN® <i>pressure plus</i> GL 45, 1000 ml	10 ea.	2181054
Spare bottle SCHOTT DURAN® <i>pressure plus</i> GL 45, 500 ml	10 ea.	1092235

All named articles are available through laboratory retailers.

Scope of supply of the complete SCHOTT DURAN® HPLC bottle:

Art. Nr. 1129820
 SCHOTT DURAN® HPLC bottle *pressure plus*, 1000 ml
 1 x screw cap GL 45, 4 ports
 4 x silicone sealing rings 1.6 mm iØ
 4 x silicone sealing rings 3.2 mm iØ
 4 x silicone seals
 4 x screw caps M8, for port

Art. Nr. 1129821
 SCHOTT DURAN® HPLC bottle *pressure plus*, 500 ml
 1 x screw cap GL 45, 4 ports
 4 x silicone sealing rings 1.6 mm iØ
 4 x silicone sealing rings 3.2 mm iØ
 4 x silicone seals
 4 x screw caps M8, for port

Please note: tubes are not included in the scope of supply

Spare parts:

Art. Nr. 1129812
 Screw cap HPLC GL 45, complete
 1 x screw cap GL 45, 4 ports
 4 x silicone sealing rings 1.6 mm iØ
 4 x silicone sealing rings 3.2 mm iØ
 4 x silicone seals
 4 x screw caps M8, for port

Art. Nr. 1129813
 Spare set
 4 x silicone sealing rings 1.6 mm iØ
 4 x silicone sealing rings 3.2 mm iØ
 4 x silicone seals
 4 x screw caps M8, for port

CONNECTION SYSTEMS - HOW THEY WORK

The new connection system is based on screw caps with a GL 45 thread and two or three connection ports. Tube connections can be used to feed liquid media into or extract them from the bottle. A universal GL 14 tube adapter and various inserts permit the use of four different tube outer diameters. An additional membrane filter with 0.2 µm pore size permits sterile pressure equalization at one of the ports.

The flexible modular system means that you can put together the various components individually depending on requirements and application.

The components are mutually compatible and are used together with the original SCHOTT DURAN® GL 45 laboratory bottles. To increase safety in the laboratory, it is advisable to use the pressure-resistant SCHOTT DURAN® *pressure plus* laboratory bottle. The changed geometry results in pressure resistance ranging from -1 to +1.5 bar, as confirmed by TÜV.



YOUR ADVANTAGES

- The system is highly versatile in use, because the screw cap is based on the standardized GL 45 thread.
- Four different tube outer diameters can be used (1.6 mm [1/16 inch]; 3.0 mm; 3.2 mm [1/8 inch]; 6.0 mm [1/4 inch]).
- The components for the 2 and 3 port system are identical and interchangeable.
- Ports not in use can be sealed with a dummy cap.
- The caps and all individual components are made of PTFE and PP and can be completely autoclaved together with the bottle, so that they can be reused repeatedly. It is not necessary to take the system apart first.
- Working in the enclosed system retains toxic gases in the bottle. Similarly, the evaporation of expensive substances can also be reduced
- **Flexible modular system: individual configuration according to your application**

EXAMPLES OF APPLICATIONS

- Use in titration systems
- Use in biotechnological processes, e.g. for pumping additives (culture media, etc.) from storage containers into reaction containers
- Use in automated closed processes for transferring pure, sterile media.
- Transfer of harmful, toxic substances in the closed system to reduce out-gassing.

ORDERING EXAMPLE

You want to fit two bottles with a three-port connection system. You want to work with two different tube diameters (1.6 mm and 3 mm) and pressure equalization. You will need the following individual components:

Screw cap GL 45 3 ports (Art. No. 1129750)

1x [PackQty 2 each]

Screw cap GL 14 (Art. No. 1129814)

2x [PackQty 2 each]

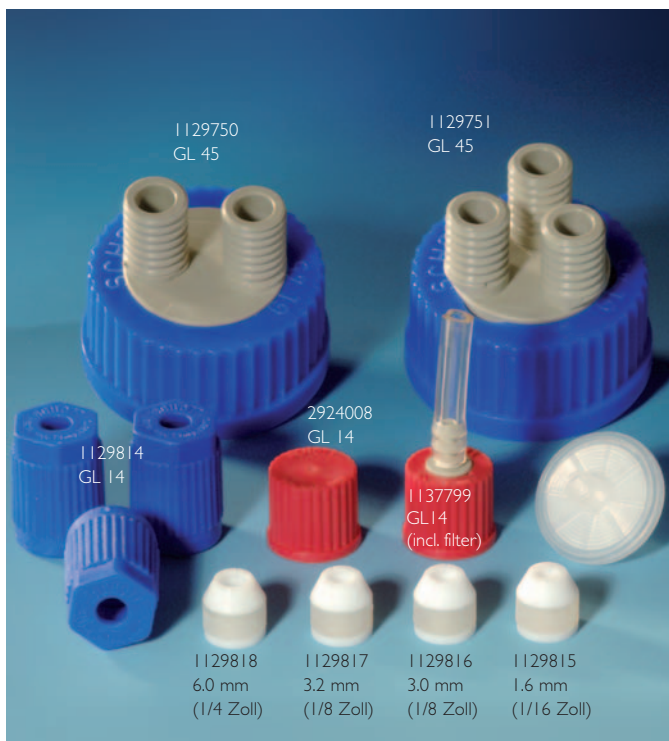
Insert for screw cap GL14 1.6 mm iØ,
(Art. No. 1129815) 2x [PackQty 1 each]

Insert for screw cap GL14 3,0 mm iØ,
(Art. No. 1129816) 2x [PackQty 1 each]

Pressure equalization set (complete) (Art. No. 1137799)

2x [PackQty 1 each]

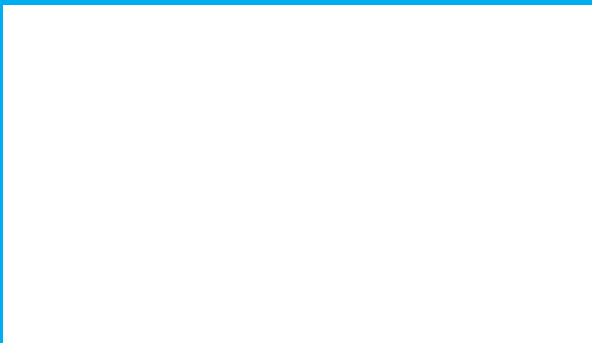




The following list shows all components in the modular connection system:

Product name	Pack Qty	Art. No.
Screw cap GL 45, 2 ports GL 14	2 ea.	1129750
Screw cap GL 45, 3 ports GL 14	2 ea.	1129751
Screw cap GL 14 for tube connection	2 ea.	1129814
Insert for screw cap GL 14, 1.6 mm [1/16 inch] iØ	1 ea.	1129815
Insert for screw cap GL 14, 3.0 mm [1/8 inch] iØ	1 ea.	1129816
Insert for screw cap GL 14, 3.2 mm [1/8 inch] iØ	1 ea.	1129817
Insert for screw cap GL 14, 6.0 mm [1/4 inch] iØ	1 ea.	1129818
Screw cap, GL 14, red	2 ea.	1156292
Pressure equalization set for 2 and 3 port screw cap (incl. 0.2 µm membrane filter)	1 ea.	1137799
Spare membrane filter for pressure equalization. 0.2 µm	2 ea.	1129819
SCHOTT DURAN® laboratory bottle <i>pressure plus</i> GL 45, 1000 ml	10 ea.	2181054
SCHOTT DURAN® laboratory bottle <i>pressure plus</i> GL 45, 500 ml	10 ea.	1092235

All above articles are available through laboratory retailers.



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