

# Swagelok® Grab Sample Liquid (GSL)

## Ordering Information

Build an ordering number by entering designators in the sequence shown below.

Bottles are ordered separately, see next page.



GSL

Example sequence: 1 08OZ C B S4 KZ

### 1 System Type

- 1 = Simple
- 2 = Simple with purge
- 3 = Continuous flow
- 4 = Continuous flow with purge
- 5 = Simple with back purge
- 6 = Fixed volume
- 7 = Fixed volume with continuous flow

### 2 Bottle Fixture Size<sup>①</sup>

- 08OZ = 8 oz Boston Round
- 16OZ = 16 oz Boston Round
- 32OZ = 32 oz Boston Round
- 0250 = 250 cm<sup>3</sup> media bottle
- 0500 = 500 cm<sup>3</sup> media bottle
- 1000 = 1000 cm<sup>3</sup> media bottle

<sup>①</sup> Fixture accepts standard bottle without safety coating. For applications requiring a safety coated bottle, please contact your authorized sales and service center.

### 3 Needles

#### Side-by-Side Needles

- A = 0.065 in. (1.7 mm) process and vent needles
- B = 0.083 in. (2.1 mm) process and vent needles
- C = 0.109 in. (2.8 mm) process needle and 0.083 in. (2.1 mm) vent needle

#### Tube Stub and Vent Orifice

- E = 0.25 in. (6.4 mm) tube stub

### 4 Sample Cooler

X = No cooler or thermometer

(Primary scale: Fahrenheit; secondary scale: Celsius)

- B = Cooler with -40 to 160°F thermometer
- C = Cooler with 0 to 200°F thermometer
- D = Cooler with 0 to 250°F thermometer
- E = Cooler with 50 to 300°F thermometer
- F = Cooler with 50 to 550°F thermometer

(Primary scale: Celsius; secondary scale: none)

- G = Cooler with -40 to 70°C thermometer
- H = Cooler with -15 to 90°C thermometer
- I = Cooler with -20 to 120°C thermometer
- J = Cooler with 10 to 150°C thermometer
- K = Cooler with 10 to 290°C thermometer

### 5 End Connection

- S4 = 1/4 in. (1/2 in. cooling water)
- 6M = 6 mm (12 mm cooling water)

### 6 Options

EN = Instrumentation will be provided in imperial units (psig/std ft<sup>3</sup>/h) in place of metric (bar/std L/min)<sup>②</sup>

KZ = Perfluorocarbon FFKM<sup>①</sup>

MP = Pressure gauges provided with MPa primary units and no secondary units<sup>②</sup>

S = No PTFE tape allowed

Omit = No options added

<sup>①</sup> Check valves on purge line(s) provided with perfluorocarbon FFKM O-rings.

<sup>②</sup> EN and MP options cannot be ordered together.

See our [Application Guide](#) for full solution details

## Customer Information

Company:

Company Name

Primary Contact:

First Name

Last Name

Phone Number:

Area Code

7 Digit Phone Number

Extension (if applicable)

Email Address:

example@example.com

Date:

MM-DD-YYYY

Delivery Address:

Street Address

City

State

ZIP

(Download form to submit)



# Swagelok® GSL Bottles

## Ordering Information

See ordering numbers referenced in the tables below.

The standard configuration of the GSL is designed to dispense into a Boston Round or media bottle without safety coating. Each sampler must be used with a matching-sized sample bottle.

Bottles can be used with either a septum or solid cap.

A septum cap forms a resilient seal against the dispensing needle during sampling, preventing unintentional escape of vent gases. Once the bottle is withdrawn from the sampler, the septum reduces the chance of spillage or off-gassing during transport without any additional action by the operator.

If open-bottle sampling is preferred, a solid cap can be screwed onto the bottle after withdrawal for storage or transport. This option is not recommended for volatile liquids, as internal pressure can build after the cap is secured.

Glass bottles for use with the GSL samplers are available from Swagelok, along with the supporting septa and solid caps; ordering numbers are shown below. The GSL samplers are compatible with many commercially available Boston Round bottles with the same nominal sizes.

Boston Round								
Bottle Dimensions				Ordering Numbers				
Size oz	Diameter in (mm)	Height in (mm)	Thread Size	Clear Bottle	Amber Bottle	Solid Cap	Hole Cap	Septum
8	2.4 (60)	5.4 (137)	24-400	GSL-BOTTLE-08OZ	GSL-BOTTLE-08OZ-AM	GSL-CAP-24-400	GSL-CAP-24-400-H	GSL-SEPTUM-24
16	3.0 (75)	6.6 (168)	28-400	GSL-BOTTLE-16OZ	GSL-BOTTLE-16OZ-AM	GSL-CAP-28-400	GSL-CAP-SEPTUM-28-400	
32	3.7 (94)	8.3 (210)	33-400	GSL-BOTTLE-32OZ	GSL-BOTTLE-32OZ-AM	GSL-CAP-33-400	GSL-CAP-SEPTUM-33-400	

Notes:

- Bottles are glass and are provided without a cap.
- Solid caps are black phenolic with a polyethylene cone liner.
- Hole caps are black phenolic
- For 28-400 and 33-400 thread sizes, hole caps are white polypropylene with bonded PTFE-faced silicone septa.
- Septa are PTFE-faced silicone.

Media Bottles								
Bottle Dimensions				Ordering Numbers				
Size cm <sup>3</sup>	Diameter in (mm)	Height in (mm)	Thread Size	Clear Bottle	Amber Bottle	Solid Cap	Hole Cap	Septum
250	2.8 (70.0)	5.4 (138)	GL45	GSL-BOTTLE-0250	GSL-BOTTLE-0250-AM	GSL-CAP-GL45	GSL-CAP-GL45-H	GSL-SEPTUM-GL45
500	3.4 (86.0)	6.9 (176)	GL45	GSL-BOTTLE-0500	GSL-BOTTLE-0500-AM	GSL-CAP-GL45	GSL-CAP-GL45-H	GSL-SEPTUM-GL45
1000	4.0 (101)	8.9 (225)	GK45	GSL-BOTTLE-1000	GSL-BOTTLE-1000-AM	GSL-CAP-GL45	GSL-CAP-GL45-H	GSL-SEPTUM-GL45

See our [Application Guide](#) for full solution details