



Swagelok® Grab Sampling System Checklist

☐ Grab Sample Module (GSM) & Cylinder (GSC)

☐ Grab Sample Liquid (GSL)

Quantity _____

Customer Information

Account _____ Project Name _____ Submitted by _____

Contact _____ Email _____ Phone _____

Today's Date _____ Date Bid Due _____ Need by Date _____

Process Fluid Data

☐ Gas ☐ Liquid Process Fluid _____

Min/Max Pressure _____ Min/Max Temp _____

Inlet Pressure _____ Inlet Temp _____

Outlet Pressure _____ Max Outlet Temp _____

Vent/Flare Pressure _____ Viscosity at Temp _____

Purge Pressure _____ Tag#’s _____

Condensable? ☐ Yes ☐ No At what Temp? _____ Particulates? ☐ Yes ☐ No Size? _____

Fluid Hazard
Conditions

Materials of Construction

Panel Components

- ☐ 316 Stainless
☐ SilcoNert2000 Coated 316SS
☐ Alloy 400 Monel
☐ C-276 Hastelloy
☐ Other _____

Tubing

- ☐ 316 Stainless
☐ SilcoNert2000 Coated 316SS
☐ Alloy 400 Monel
☐ C-276 Hastelloy
☐ Other _____

Seal Materials

- ☐ FKM
☐ EP
☐ KZ®
☐ PTFE
☐ PEEK
☐ Other _____

Sample Station Options

Cylinder

Quantity _____
Size: ☐ 150cc
☐ 300cc
☐ 400cc
☐ 500cc
☐ 1,000cc
☐ Other _____

Boston Round Bottle

Quantity _____
Size: ☐ 2oz
☐ 4oz
☐ 8oz
☐ 16oz
☐ 32oz
☐ Other _____

Media Bottle

Quantity _____
Size: ☐ 50 cm³
☐ 100 cm³
☐ 250 cm³
☐ 500 cm³
☐ 1000 cm³
☐ Other _____

Cylinder Material

- ☐ 304L ☐ 316L
☐ Alloy 400 Monel
☐ SilcoNert Coated 316ss

Bottle Description

- ☐ Clear ☐ Amber
☐ Safety Coated

Replacing Existing Station

☐ No

☐ Yes

Continuous Flow

☐ No

☐ Yes

Purge

☐ No

☐ Yes

Relief Valve

☐ No

☐ Yes

Check Valves

☐ No

☐ Inlet

☐ Outlet

☐ Vent

☐ Purge

Isolation Valves

☐ No

☐ Inlet

☐ Outlet

☐ Vent

☐ Purge

Block Valves

☐ No

☐ Inlet

☐ Outlet

Flowmeter

☐ No

☐ Yes

Range _____ gal/min or _____ ft³/min

Outage Tube

☐ No

☐ Yes

Minimum Outage _____ %

Rupture Disc

☐ No

☐ Yes

Gauges

☐ No

Pressure _____ Temp _____ ☐ General Industrial ☐ Safety ☐ Process

Inlet/Outlet Connections

☐ 1/4"

☐ 6mm

Other _____

Sample Cooler

☐ No

☐ Yes

Cooling Media _____

Operating Temp _____

Mounting

☐ Wall

☐ Pipe

Stand Qty _____

Enclosure

☐ No

☐ Yes

Insulated Heated? ☐ Steam ☐ Electric Material _____

Panel Material

☐ SS

☐ Aluminum

Other _____ Decal _____

Quick Connects

☐ No

☐ QC4

☐ QTM2

☐ QC6

Other _____

Build a GSM solution ordering number by combining the designators in the sequence below.

		1		2		3		4		5		6		7		8	
GSM	-		-		-				-						-		

1. Fluid Type

G = Gas L = Liquid

2. Flow Pattern

1 = Standard 2 = Continuous Flow

3. Dial Range

(primary scale: bar; secondary scale:psi)

B = 0 to 160 psi
D = 0 to 400 psi
E = 0 to 800 psi
F = 0 to 1500 psi
H = 0 to 3000 psi
K = 0 to 10 bar
M = 0 to 25 bar
O = 0 to 60 bar
P = 0 to 100 bar
Q = 0 to 160 bar

4. Quick Connect

2 = QTM2
4 = QC4
6 = QC6 Not available with
0 to 3000 psi or 0 to 160 bar gauge

5. Relief Valve

A = Proportional
X = None

6. Cylinder Bracket Size

(GSC Specific)

0150 = 150 cm³
0300 = 300 cm³
0400 = 400 cm³
0500 = 500 cm³
1000 = 1000 cm³

7. Purge

N = No purge
P = Purge

8. End Connection

S4 = 1/4 inch Swagelok
Tube Fitting
6M = 6mm Swagelok
Tube Fitting



Build a GSC assembly ordering number by combining the designators in the sequence below.

		1		2		3		4		5		6		7		8		9		10	
GSC	-		-						-										-		

1. Cylinder Material

1 = 304L SS
2 = 304L SS SilcoNert 2000
3 = 316 SS
4 = 316 SilcoNert 2000
5 = Alloy 400

2. Valve Material

A = 316 SS
B = 304L SS SilcoNert 2000
C = Alloy400

3. Cylinder Size

0150 = 150 cm³
0300 = 300 cm³
0400 = 300 cm³ available only in 304L SS
0500 = 300 cm³
1000 = 150 cm³ available only in 304L SS

4. Purge

N = No Purge
P = Purge

5. Quick Connect

2 = QTM2
4 = QC4
6 = QC6 pressure rating
limited to 1500psig (103 bar)

6. Valve Type

1 = D Series

7. Rupture Disc

A = 1900 psig (130 bar)
B = 2800 psig (192 bar)
X = None

8. Outage Tube

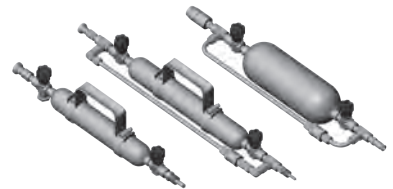
XX = None 10 = 10%
20 = 20% 30 = 30%
40 = 40% 50 = 50%

9. Cylinder Handle

H = Handle available on cylinders 400 cm³ or larger
X = No Handle

10. Options

EP = Electropolished cylinder (Cannot combine with PTFE)
LE = Laser etched cylinder, followed by specific information
PD = TPED cylinder certification (Not available in Alloy 400)
SB = Stem & body protectors (Not available on QTM2)
T = PTFE cylinder coatings (cannot combine with electropolishing, not available with SilcoNert 2000 coating)



Build a GSL assembly ordering number by combining the designators in the sequence below.

		1		2		3		4		5		6		7	
GSL	-		-						-		-			-	

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 w/continuous flow

2. Bottle Fixture Size

020Z = 2oz Boston Round
040Z = 4oz Boston Round
080Z = 8 oz Boston Round
160Z = 16 oz Boston Round
320Z = 32 oz Boston Round
0050 = 50cm³ media bottle
0100 = 100cm³ media bottle
0250 = 250cm³ media bottle
0500 = 500cm³ media bottle
1000 = 1000cm³ media bottle

3. Process Needle*

1 = 0.065in. (1.7 mm)
2 = 0.083in. (2.1 mm)
3 = 0.110 in. (2.8 mm)
4 = 0.188 in. (4.8 mm) tube

4. Vent Needle*

1 = 0.065in. (1.7 mm)
2 = 0.083in. (2.1 mm)
3 = 0.110 in. (2.8 mm)
4 = 0.140 in. (3.6 mm)

vent orifice, no needle included

*Valid combinations: 11, 12, 22, 23, 32, and 44. 32 is recommended as a standard configuration.

5. Sample Cooler

X = no cooler or thermometer
B = cooler w/-40 to 160° F thermometer
C = cooler w/0 to 200° F thermometer
D = cooler w/0 to 250° F thermometer
E = cooler w/50 to 300° F thermometer
F = cooler w/50 to 550° F thermometer

6. End Connection

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

7. Options

EN = Instrumentation will be provided in fractional units (psig/std ft³/h) in place of metric (bar/std L/min)
KZ = perfluorocarbon FFKM (MVS and check valves on purge line(s) provided with perfluorocarbon FFKM O-rings)
S = No PTFE tape allowed
Omit = No options added

