



# Swagelok Standard Pressure Gauges

Stocked and Readily Available When You Need Them

Swagelok®

Swagelok North Carolina | East Tennessee

# Ensure Accurate Pressure Measurement in Your Fluid Systems

Pressure gauges are a critical part of your system, providing a visual indication of the fluid system pressure. At Swagelok, we have developed a standard offering that allows us to keep gauges readily stocked so they are available when you need them.

There are several factors to consider when selecting the right gauge for your application: dial size, connection location, fitting size and type, special cleaning, and the pressure range and scale.

When it comes to pressure range, the dial range should be approximately twice the working pressure of the system, and the working pressure should be in the middle third of the dial range.



## Swagelok Standard Pressure Gauge Selection Guide

		<b>B Model</b> page 3	<b>C Model</b> pages 4 - 5	<b>M Model</b> page 6	<b>P Model</b> page 7
<b>Dial Size</b>		2 1/2 in. dial (63 mm)	2 1/2 in. dial (63 mm)	1 1/2 in. dial (40 mm)	4 1/2 in. dial (115 mm)
<b>Connection Location</b>		Lower mount	Lower Mount Center-Back Mount	Lower Mount Center-Back Mount	Lower Mount
<b>Fitting Size and Type</b>		1/4 in. male NPT 6 mm tube adapter	1/4 in. tube adapter 1/4 in. male NPT	1/8 in. male NPT	1/2 in. male NPT
<b>Special Cleaning</b>		ASME B40.100 Level IV Cleaning	None	None	None
<b>Pressure Ranges and Scales</b>					
<b>PSI Scale</b>	<b>Primary Scale</b>		PSI	PSI	PSI
	<b>Secondary Scale</b>		Bar or KPa	Bar	Bar
	<b>Min Range</b>		Vacuum to 0 psi	0 to 15 psi	Vacuum to 30 psi
	<b>Max Range</b>		0 to 5,000 psi	0 to 160 psi	0 to 5,000 psi
<b>Bar Scale</b>	<b>Primary Scale</b>	Bar		Bar	Bar
	<b>Secondary Scale</b>	PSI		PSI	PSI
	<b>Min Range</b>	Vacuum to 0 bar		0 to 1 bar	Vacuum to 1.5 bar
	<b>Max Range</b>	0 to 400 bar		0 to 10 bar	0 to 100 bar

*Additional options are available but may extend the standard lead time. Liquid fluid fill is available on the B, C, and P models with the option of glycerin, low-temperature glycerin, and silicone.*



## B Model: General-Purpose Stainless Steel Gauge with Adjustable Pointer

- 2 1/2 in. dial (63 mm)
- Adjustable pointer is standard
- Bayonet ring allows easy access to pointer
- Lens is constructed of polycarbonate



Part #	Dial Range, bar (primary scale: bar; secondary scale: psi)	Connection Location	Fitting Size and Type
PGI-63B-BC0-LAOX	Vacuum -1 bar to 0 bar	Lower mount	1/4 in. male NPT
PGI-63B-BC0-LASX	Vacuum -1 bar to 0 bar	Lower mount	6 mm tube adapter
PGI-63B-BC1.5-LAOX	Vacuum -1 bar to 1.5 bar	Lower mount	1/4 in. male NPT
PGI-63B-BC1.5-LASX	Vacuum -1 bar to 1.5 bar	Lower mount	6 mm tube adapter
PGI-63B-BC9-LAOX	Vacuum -1 bar to 9 bar	Lower mount	1/4 in. male NPT
PGI-63B-BC9-LASX	Vacuum -1 bar to 9 bar	Lower mount	6 mm tube adapter
PGI-63B-BG1-LAOX	0 to 1 bar	Lower mount	1/4 in. male NPT
PGI-63B-BG1-LASX	0 to 1 bar	Lower mount	6 mm tube adapter
PGI-63B-BG1.6-LAOX	0 to 1.6 bar	Lower mount	1/4 in. male NPT
PGI-63B-BG1.6-LASX	0 to 1.6 bar	Lower mount	6 mm tube adapter
PGI-63B-BG2.5-LAOX	0 to 2.5 bar	Lower mount	1/4 in. male NPT
PGI-63B-BG2.5-LASX	0 to 2.5 bar	Lower mount	6 mm tube adapter
PGI-63B-BG4-LAOX	0 to 4 bar	Lower mount	1/4 in. male NPT
PGI-63B-BG4-LASX	0 to 4 bar	Lower mount	6 mm tube adapter
PGI-63B-BG6-LAOX	0 to 6 bar	Lower mount	1/4 in. male NPT
PGI-63B-BG6-LASX	0 to 6 bar	Lower mount	6 mm tube adapter
PGI-63B-BG10-LAOX	0 to 10 bar	Lower mount	1/4 in. male NPT
PGI-63B-BG10-LASX	0 to 10 bar	Lower mount	6 mm tube adapter
PGI-63B-BG25-LAOX	0 to 25 bar	Lower mount	1/4 in. male NPT
PGI-63B-BG25-LASX	0 to 25 bar	Lower mount	6 mm tube adapter
PGI-63B-BG40-LAOX	0 to 40 bar	Lower mount	1/4 in. male NPT
PGI-63B-BG40-LASX	0 to 40 bar	Lower mount	6 mm tube adapter
PGI-63B-BG60-LAOX	0 to 60 bar	Lower mount	1/4 in. male NPT
PGI-63B-BG60-LASX	0 to 60 bar	Lower mount	6 mm tube adapter
PGI-63B-BG100-LAOX	0 to 100 bar	Lower mount	1/4 in. male NPT
PGI-63B-BG100-LASX	0 to 100 bar	Lower mount	6 mm tube adapter
PGI-63B-BG250-LAOX	0 to 250 bar	Lower mount	1/4 in. male NPT
PGI-63B-BG250-LASX	0 to 250 bar	Lower mount	6 mm tube adapter
PGI-63B-BG400-LAOX	0 to 400 bar	Lower mount	1/4 in. male NPT
PGI-63B-BG400-LASX	0 to 400 bar	Lower mount	6 mm tube adapter

Part #	Dial Range, psi (primary scale: psi; secondary scale: bar)	Connection Location	Fitting Size and Type
PGI-63B-PG100-LAOX-A*	0 to 100 psi	Lower mount	1/4 in. male NPT
PGI-63B-PG5000-LAOX-A*	0 to 5,000 psi	Lower mount	1/4 in. male NPT

\*Special cleaning to ASME B40.100 Level IV Cleaning.

### Accessories:

PGI-63B-PMC - Panel Mount Clamp for B Model Industrial Gauge. Part must be ordered separately and can be added onsite.

PGI-63SBL-FF - Front Flange Kit for B Model Industrial Gauge. Part must be ordered separately and can be added onsite.



## C Model: General-Purpose Stainless Steel Gauge

- 2 1/2 in. dial (63 mm)
- Crimped ring provides a permanent seal of gauge case to lens
- Lens is constructed of polycarbonate



Part #	Dial Range, psi (primary scale: psi; secondary scale: kPa)	Connection Location	Fitting Size and Type
PGI-63C-OG30-LAOX	0 to 30 psi	Lower mount	1/4 in. male NPT
PGI-63C-OG30-LAQX	0 to 30 psi	Lower mount	1/4 in. tube adapter
PGI-63C-OG60-LAOX	0 to 60 psi	Lower mount	1/4 in. male NPT
PGI-63C-OG60-LAQX	0 to 60 psi	Lower mount	1/4 in. tube adapter
PGI-63C-OG100-LAOX	0 to 100 psi	Lower mount	1/4 in. male NPT
PGI-63C-OG100-LAQX	0 to 100 psi	Lower mount	1/4 in. tube adapter
PGI-63C-OG160-LAOX	0 to 160 psi	Lower mount	1/4 in. male NPT
PGI-63C-OG160-LAQX	0 to 160 psi	Lower mount	1/4 in. tube adapter
PGI-63C-OG300-LAOX	0 to 300 psi	Lower mount	1/4 in. male NPT
PGI-63C-OG300-LAQX	0 to 300 psi	Lower mount	1/4 in. tube adapter
PGI-63C-OG600-LAOX	0 to 600 psi	Lower mount	1/4 in. male NPT
PGI-63C-OG600-LAQX	0 to 600 psi	Lower mount	1/4 in. tube adapter
PGI-63C-OG3000-LAOX	0 to 3,000 psi	Lower mount	1/4 in. male NPT
PGI-63C-OG3000-LAQX	0 to 3,000 psi	Lower mount	1/4 in. tube adapter
PGI-63C-OG5000-LAOX	0 to 5,000 psi	Lower mount	1/4 in. male NPT
PGI-63C-OG5000-LAQX	0 to 5,000 psi	Lower mount	1/4 in. tube adapter

Part #	Dial Range, in. Hg (primary scale: in. Hg secondary scale: bar)	Connection Location	Fitting Size and Type
PGI-63C-PC0-LAOX	Vacuum -30 in. Hg to 0 psi	Lower mount	1/4 in. male NPT
PGI-63C-PC0-LAQX	Vacuum -30 in. Hg to 0 psi	Lower mount	1/4 in. tube adapter
PGI-63C-PC30-LAOX	Vacuum -30 in. Hg to 30 psi	Lower mount	1/4 in. male NPT
PGI-63C-PC30-LAQX	Vacuum -30 in. Hg to 30 psi	Lower mount	1/4 in. tube adapter
PGI-63C-PC100-LAOX	Vacuum -30 in. Hg to 100 psi	Lower mount	1/4 in. male NPT
PGI-63C-PC100-LAQX	Vacuum -30 in. Hg to 100 psi	Lower mount	1/4 in. tube adapter

## C Model: General-Purpose Stainless Steel Gauge

Part #	Dial Range, psi (primary scale: psi; secondary scale: bar)	Connection Location	Fitting Size and Type
PGI-63C-PG15-LAOX	0 to 15 psi	Lower mount	1/4 in. male NPT
PGI-63C-PG15-LAQX	0 to 15 psi	Lower mount	1/4 in. tube adapter
PGI-63C-PG30-CAOX	0 to 30 psi	Center-back mount	1/4 in. male NPT
PGI-63C-PG30-CAQX	0 to 30 psi	Center-back mount	1/4 in. tube adapter
PGI-63C-PG30-LAOX	0 to 30 psi	Lower mount	1/4 in. male NPT
PGI-63C-PG30-LAQX	0 to 30 psi	Lower mount	1/4 in. tube adapter
PGI-63C-PG60-CAOX	0 to 60 psi	Center-back mount	1/4 in. male NPT
PGI-63C-PG60-CAQX	0 to 60 psi	Center-back mount	1/4 in. tube adapter
PGI-63C-PG60-LAOX	0 to 60 psi	Lower mount	1/4 in. male NPT
PGI-63C-PG60-LAQX	0 to 60 psi	Lower mount	1/4 in. tube adapter
PGI-63C-PG100-LAOX	0 to 100 psi	Lower mount	1/4 in. male NPT
PGI-63C-PG100-LAQX	0 to 100 psi	Lower mount	1/4 in. tube adapter
PGI-63C-PG160-CAOX	0 to 160 psi	Center-back mount	1/4 in. male NPT
PGI-63C-PG160-CAQX	0 to 160 psi	Center-back mount	1/4 in. tube adapter
PGI-63C-PG160-LAOX	0 to 160 psi	Lower mount	1/4 in. male NPT
PGI-63C-PG160-LAQX	0 to 160 psi	Lower mount	1/4 in. tube adapter
PGI-63C-PG300-CAOX	0 to 300 psi	Center-back mount	1/4 in. male NPT
PGI-63C-PG300-CAQX	0 to 300 psi	Center-back mount	1/4 in. tube adapter
PGI-63C-PG300-LAOX	0 to 300 psi	Lower mount	1/4 in. male NPT
PGI-63C-PG300-LAQX	0 to 300 psi	Lower mount	1/4 in. tube adapter
PGI-63C-PG600-LAOX	0 to 600 psi	Lower mount	1/4 in. male NPT
PGI-63C-PG600-LAQX	0 to 600 psi	Lower mount	1/4 in. tube adapter
PGI-63C-PG1000-LAOX	0 to 1,000 psi	Lower mount	1/4 in. male NPT
PGI-63C-PG1000-LAQX	0 to 1,000 psi	Lower mount	1/4 in. tube adapter
PGI-63C-PG3000-LAOX	0 to 3,000 psi	Lower mount	1/4 in. male NPT
PGI-63C-PG3000-LAQX	0 to 3,000 psi	Lower mount	1/4 in. tube adapter
PGI-63C-PG5000-LAOX	0 to 5,000 psi	Lower mount	1/4 in. male NPT
PGI-63C-PG5000-LAQX	0 to 5,000 psi	Lower mount	1/4 in. tube adapter

### Accessories:

PGI-63C-PMC - Panel Mount Clamp for C Model Industrial Gauge. Part must be ordered separately and can be added onsite.



## M Model: Stainless Steel Miniature Gauge

- 1 1/2 in. dial (40 mm)
- Miniature size allows placement in compact spaces
- Snap-in lens saves space when compared to twist-on lens



Part #	Dial Range, bar (primary scale: bar; secondary scale: psi)	Connection Location	Fitting Size and Type
PGI-40M-BG1-CANX	0 to 1 bar	Center-back mount	1/8 in. male NPT
PGI-40M-BG1-LANX	0 to 1 bar	Lower mount	1/8 in. male NPT
PGI-40M-BG2.5-CANX	0 to 2.5 bar	Center-back mount	1/8 in. male NPT
PGI-40M-BG2.5-LANX	0 to 2.5 bar	Lower mount	1/8 in. male NPT
PGI-40M-BG4-CANX	0 to 4 bar	Center-back mount	1/8 in. male NPT
PGI-40M-BG4-LANX	0 to 4 bar	Lower mount	1/8 in. male NPT
PGI-40M-BG6-CANX	0 to 6 bar	Center-back mount	1/8 in. male NPT
PGI-40M-BG6-LANX	0 to 6 bar	Lower mount	1/8 in. male NPT
PGI-40M-BG10-CANX	0 to 10 bar	Center-back mount	1/8 in. male NPT
PGI-40M-BG10-LANX	0 to 10 bar	Lower mount	1/8 in. male NPT

Part #	Dial Range, psi (primary scale: psi; secondary scale: bar)	Connection Location	Fitting Size and Type
PGI-40M-PG15-CANX	0 to 15 psi	Center-back mount	1/8 in. male NPT
PGI-40M-PG15-LANX	0 to 15 psi	Lower mount	1/8 in. male NPT
PGI-40M-PG30-CANX	0 to 30 psi	Center-back mount	1/8 in. male NPT
PGI-40M-PG30-LANX	0 to 30 psi	Lower mount	1/8 in. male NPT
PGI-40M-PG60-CANX	0 to 60 psi	Center-back mount	1/8 in. male NPT
PGI-40M-PG60-LANX	0 to 60 psi	Lower mount	1/8 in. male NPT
PGI-40M-PG100-CANX	0 to 100 psi	Center-back mount	1/8 in. male NPT
PGI-40M-PG100-LANX	0 to 100 psi	Lower mount	1/8 in. male NPT
PGI-40M-PG160-CANX	0 to 160 psi	Center-back mount	1/8 in. male NPT
PGI-40M-PG160-LANX	0 to 160 psi	Lower mount	1/8 in. male NPT

## P Model: Reinforced Thermoplastic Industrial Process Gauge

- 4 1/2 in. dial (115 mm)
- Solid front and blowout back for severe service
- Design meets safety requirements of ASME B40.1
- Adjustable pointer is standard
- Threaded cover ring allows easy access to pointer
- Lens is constructed of clear acrylic plastic



Part #	Dial Range, bar (primary scale: bar; secondary scale: psi)	Connection Location	Fitting Size and Type
PGI-115P-BC1.5-LAPX-J	Vacuum -1 bar to 1.5 bar	Lower mount	1/2 in. male NPT
PGI-115P-BG10-LAPX-J	0 to 10 bar	Lower mount	1/2 in. male NPT
PGI-115P-BG25-LAPX-J	0 to 25 bar	Lower mount	1/2 in. male NPT
PGI-115P-BG40-LAPX-J	0 to 40 bar	Lower mount	1/2 in. male NPT
PGI-115P-BG60-LAPX-J	0 to 60 bar	Lower mount	1/2 in. male NPT

Part #	Dial Range, in. Hg (primary scale: in. Hg secondary scale: psi)	Connection Location	Fitting Size and Type
PGI-115P-PC30-LAPX-J	Vacuum -30 in. Hg to 30 psi	Lower mount	1/2 in. male NPT
PGI-115P-PC100-LAPX-J	Vacuum -30 in. Hg to 100 psi	Lower mount	1/2 in. male NPT

Part #	Dial Range, psi (primary scale: psi; secondary scale: bar)	Connection Location	Fitting Size and Type
PGI-115P-PG15-LAPX-J	0 to 15 psi	Lower mount	1/2 in. male NPT
PGI-115P-PG30-LAPX-J	0 to 30 psi	Lower mount	1/2 in. male NPT
PGI-115P-PG60-LAPX-J	0 to 60 psi	Lower mount	1/2 in. male NPT
PGI-115P-PG100-LAPX-J	0 to 100 psi	Lower mount	1/2 in. male NPT
PGI-115P-PG160-LAPX-J	0 to 160 psi	Lower mount	1/2 in. male NPT
PGI-115P-PG300-LAPX-J	0 to 300 psi	Lower mount	1/2 in. male NPT
PGI-115P-PG600-LAPX-J	0 to 600 psi	Lower mount	1/2 in. male NPT
PGI-115P-PG1000-LAPX-J	0 to 1,000 psi	Lower mount	1/2 in. male NPT
PGI-115P-PG3000-LAPX-J	0 to 3,000 psi	Lower mount	1/2 in. male NPT
PGI-115P-PG5000-LAPX-J	0 to 5,000 psi	Lower mount	1/2 in. male NPT





## Regulator Gauge Assemblies

We understand the need for quick delivery on basic regulator assemblies for gas bottle service. That's why we have increased our inventory on standard regulators, gauges, and CGA fittings.

### Materials of Construction

- Regulators are constructed from 316 stainless steel with PCTFE seats
- General purpose gauges are stainless steel with plastic lens
- Stainless steel CGA fittings
- Threaded connections lubricated with Swagelok PTFE pipe tape sealant

### Specifications

- Cv of 0.06 and 0.50
- Maximum inlet pressure of 3600 psig
- Pressure tested to a maximum of 1000 psig
- Right to left and left to right flow patterns
- Green knob handle
- Relief valve up to 100 psig available



### Ordering Information:

# KPR - F - 400 - 4NPT - 1 - R

#### REGULATOR TYPE

KPR = Pressure reducing

KCY = Two stage pressure reducing

#### PRESSURE CONTROL RANGE

D = 0 to 25 psig

E = 0 to 50 psig

F = 0 to 100 psig

G = 0 to 250 psig

H = 0 to 500 psig

#### INLET CONNECTION

400 = 1/4 in. Swagelok tube fitting

4NPT = 1/4 in. female NPT

CGA350 = Flammable gases

CGA580 = Inert gases

CGA590 = Industrial air

#### GAUGE FILLING

1 = Glycerin

X = No gauge fill

#### OUTLET CONNECTION OR VALVE

400 = 1/4 in. Swagelok tube fitting

4NPT = 1/4 in. female NPT

4P4T = Purge valve with 1/4 in. Swagelok tube fitting

1RS4 = Needle valve with 1/4 in. Swagelok tube fitting

#### RELIEF VALVE

R = Relief valve

X = No relief valve



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**Warranty Information:** Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit [swagelok.com](http://swagelok.com) or contact your authorized Swagelok representative, listed above.

**Safe Product Selection:** When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

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