

Pressure Gauges

Industrial Process



Features

- Solid-front gauge with thermoplastic, turret-style case
- 115 and 160 mm (4 1/2 and 6 in.) dial sizes
- NPT and Swagelok® tube adapter end connections
- Available unfilled or liquid-filled
- Swagelok limited lifetime warranty

Features

- Solid front and blowout back for severe service.
- Adjustable pointer is standard.
- Threaded cover ring allows easy access to pointer.
- Design meets safety requirements of ASME B40.1
- Lens is constructed of clear acrylic plastic.



Technical Data

Dial Ranges

- Compound gauges
 - Vacuum to 0 psi through vacuum to 400 psi
 - Vacuum to 0 kPa through vacuum to 2500 kPa
- Positive-pressure gauges
 - 0 to 15 psi through 0 to 15 000 psi
 - 0 to 60 kPa through 0 to 100 000 kPa

Accuracy

- ± 0.5 % of span (ASME B40.1 Grade 2A)

Configurations

- Lower-back mount and lower mount

End Connections

- 115 mm (4 1/2 in.) dial size
 - 1/2 in. Swagelok tube adapter
 - 1/4 and 1/2 in. male NPT
- 160 mm (6 in.) dial size
 - 1/2 in. male NPT

⚠ Swagelok tube adapters are to be used ONLY in Swagelok tube fittings manufactured by Swagelok Company. Use in fittings made by other manufacturers may result in leakage or slippage.

Weather Protection

- Weather resistant (NEMA 3 / IP54)—dry case
- Weather-tight (NEMA 4X / IP56)—liquid-fillable case

Operating Temperature

- Ambient
 - Unfilled: -40 to 140°F (-40 to 60°C)
 - Glycerin-filled: -4 to 140°F (-20 to 60°C)
 - Silicone-filled: -40 to 140°F (-40 to 60°C)
- Media
 - 212°F (100°C) maximum
 - Maximum media temperature for the brass process gauge is 140°F (60°C)

Temperature Error

- ± 0.4 % for every 18°F (10°C) temperature change from 68°F (20°C)

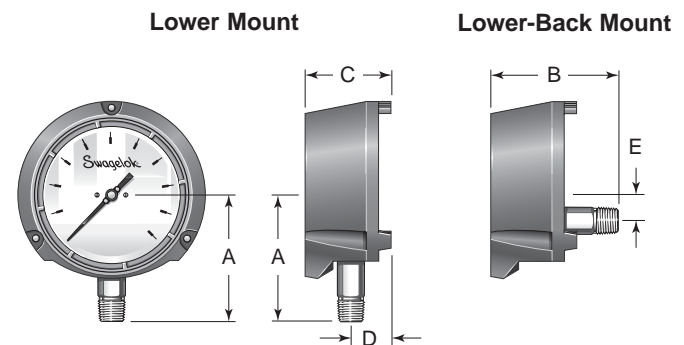
Materials of Construction

Component	Material
<i>End connection</i>	316 SS ^①
<i>Bourdon tube</i>	
Case	Black glass reinforced thermoplastic
Movement	SS
Lens	Acrylic
Lens gasket	Buna N
Dial	Aluminum
Pointer	

Wetted components are listed in *italics*.

① Lower mount gauge configurations are also available in brass and alloy 400 materials. Performance criteria for these gauges is consistent with stainless steel except where noted.

Dimensions



Dial Size mm (in.)	End Connection		Dimensions, in. (mm)				
	Size in.	Type	A	B	C	D	E
115 (4 1/2)	1/2	Swagelok tube adapter	4.27 (108)	4.95 (126)	3.31 (84.0)	1.57 (40.0)	1.12 (28.5)
	1/4	Male NPT	3.82 (97.0)	4.50 (114)			
	1/2		4.06 (103)	4.74 (120)			
160 (6)	1/2		4.82 (123)	4.86 (123)	3.46 (88.0)		

Dial Range Designators

Dial Range, psi (primary scale: psi; secondary scale: bar)		
Minimum	Maximum	Designator
Vacuum -30 in. Hg	0	PC0
	15	PC15
	30	PC30
	60	PC60
	100	PC100
	160	PC160
	200	PC200
	300	PC300
	400	PC400
0	15	PG15
	30	PG30
	60	PG60
	100	PG100
	160	PG160
	200	PG200
	300	PG300
	400	PG400
	600	PG600
	800	PG800
	1 000	PG1000
	1 500	PG1500
	2 000	PG2000
	3 000	PG3000 ^①
	5 000	PG5000 ^①
6 000	PG6000 ^①	
10 000	PG10K ^①	
15 000	PG15K ^①	

Dial Range, psi (primary scale: psi; secondary scale: kPa)		
Minimum	Maximum	Designator
Vacuum -30 in. Hg.	0	OC0
	15	OC15
	30	OC30
	60	OC60
	100	OC100
	160	OC160
	200	OC200
	300	OC300
	400	OC400
0	15	OG15
	30	OG30
	60	OG60
	100	OG100
	160	OG160
	200	OG200
	300	OG300
	400	OG400
	600	OG600
	800	OG800
	1 000	OG1000
	1 500	OG1500
	2 000	OG2000
	3 000	OG3000 ^①
	5 000	OG5000 ^①
6 000	OG6000 ^①	
10 000	OG10K ^①	
15 000	OG15K ^①	

Dial Range, psi (primary scale: psi; no secondary scale)		
Minimum	Maximum	Designator
Vacuum -30 in. Hg	0	NC0
	15	NC15
	30	NC30
	60	NC60
	100	NC100
	160	NC160
	200	NC200
	300	NC300
	400	NC400
0	15	NG15
	30	NG30
	60	NG60
	100	NG100
	160	NG160
	200	NG200
	300	NG300
	400	NG400
	600	NG600
	800	NG800
	1 000	NG1000
	1 500	NG1500
	2 000	NG2000
	3 000	NG3000 ^①
	5 000	NG5000 ^①
6 000	NG6000 ^①	
10 000	NG10K ^①	
15 000	NG15K ^①	

Dial Range, psi (primary scale: psi; secondary scale: kgf/cm ²)		
Minimum	Maximum	Designator
Vacuum -30 in. Hg.	0	QC0
	15	QC15
	30	QC30
	60	QC60
	100	QC100
	160	QC160
	200	QC200
	300	QC300
	400	QC400
0	15	QG15
	30	QG30
	60	QG60
	100	QG100
	160	QG160
	200	QG200
	300	QG300
	400	QG400
	600	QG600
	800	QG800
	1 000	QG1000
	1 500	QG1500
	2 000	QG2000
	3 000	QG3000 ^①
	5 000	QG5000 ^①
6 000	QG6000 ^①	
10 000	QG10K ^①	
15 000	QG15K ^①	

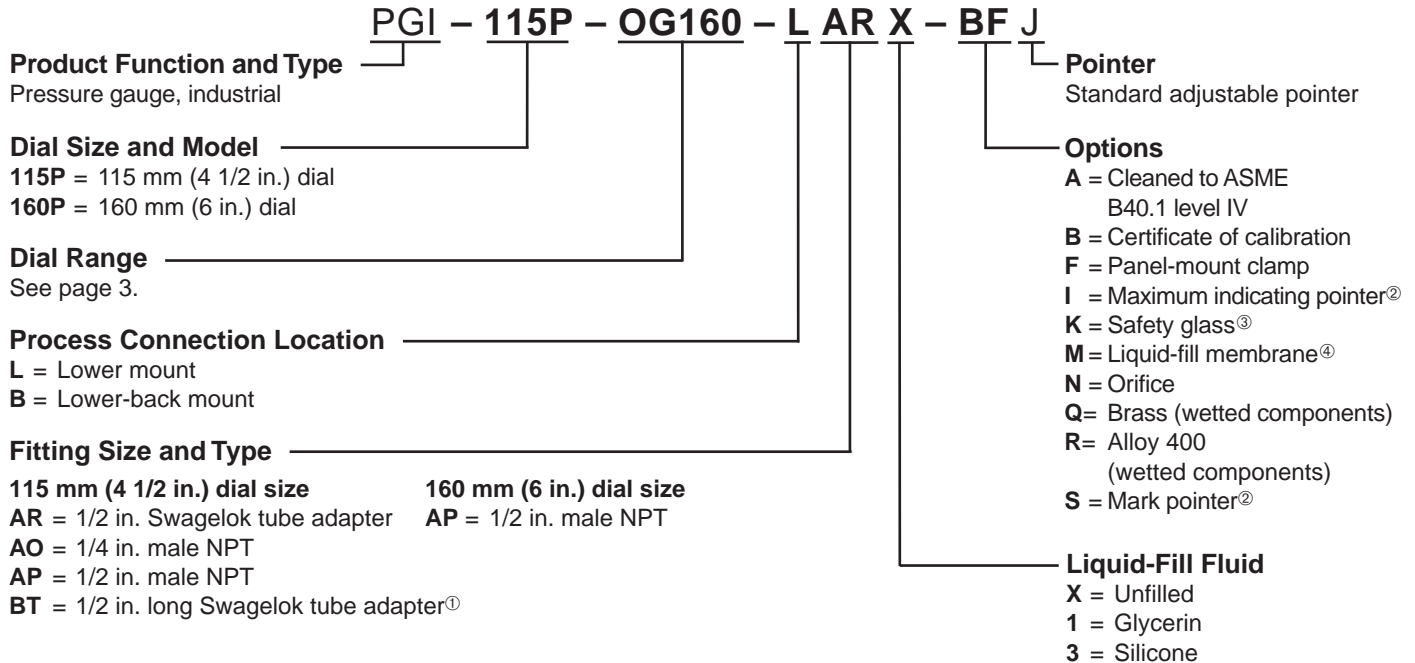
Dial Range, kPa (primary scale: kPa; no secondary scale)		
Minimum	Maximum	Designator
Vacuum -100 kPa	0	JC0
	60	JC60
	150	JC150
	300	JC300
	500	JC500
	900	JC900
	1500	JC1500
	2500	JC2500
	0	60
100		JG100
160		JG160
250		JG250
400		JG400
600		JG600
1 000		JG1000
1 600		JG1600
2 500		JG2500
4 000		JG4000
6 000		JG6000
10 000		JG10K
16 000		JG16K ^①
25 000		JG25K ^①
40 000		JG40K ^①
60 000	JG60K ^①	
100 000	JG100K ^①	

① Maximum pressure is limited by the materials of construction and the end connection.

Contact your independent Swagelok sales and service representative for availability information. Not all dial ranges and end connections are available on all models.

Ordering Information

Create a P model gauge ordering number by adding the designators as shown below. List option designators alphabetically.



① For use with female Swagelok ports.

② Maximum indicating and mark pointers only available on 115 mm (4 1/2 in.) gauges.

③ Safety glass not available on gauges with a maximum indicating or mark pointer.

④ A membrane comes factory installed on a liquid-filled gauge.

Accessories

Item	Ordering Number
115 mm (4 1/2 in.) panel mount clamp	PGI-P-115-PMC
115 mm (4 1/2 in.) safety glass	PGI-P-115-SGLASS
160 mm (6 in.) safety glass	PGI-P-160-SGLASS
115 mm (4 1/2 in.) cover ring remover	PGI-P-115-CRR
Liquid-fill kit lower mount (includes membrane and plug)	PGI-P-FILLKIT-LM
Liquid-fill kit lower back mount (includes membrane and plug)	PGI-P-FILLKIT-LBM
Stainless steel orifice	PGI-P-ORIFICE
Brass orifice	PGI-P-ORIFICE-Q
Alloy 400 orifice	PGI-P-ORIFICE-R
Maximum indicating pointer	PGI-P-115-MIP-A
Mark pointer	PGI-P-115-MARK-A

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.

Caution: Do not mix or interchange parts with those of other manufacturers.