

STAINLESS STEEL INDUSTRIAL PRESSURE GAUGES LIQUID-FILLABLE

PGM Series

- ✓ Dual Scales in psi and bar
- ✓ 63 mm (2½") and 100 mm (4") Diameters
- ✓ Back- or Lower-Mount Fittings
- ✓ All Stainless Steel Construction
- ✓ Liquid Fillable in the Field
- ✓ NEMA 4 (IP65) Protection

Starts at
\$40

**Heavy-Duty,
High
Performance!**

**See Page G-54 for
Ordering Information**



PGM-63B-1000PSI/70BAR,
with lower-mount fitting,
\$57, shown actual size.



PGM-100L-100PSI/7BAR,
with lower-mount fitting,
\$77, shown actual size.

LIQUID-FILLABLE INDUSTRIAL PRESSURE GAUGES

OMEGA's PGM Series gauges are suitable for corrosive processing environments in chemical, petrochemical refining, power, marine, food and pharmaceutical applications. The PGM Series comes in a 63 mm (2.5") or 100 mm (4") case, features all stainless steel construction, and is environmentally protected to NEMA 4 (IP65) standards.

The PGM Series can also be liquid-filled in the field. Liquid-filled pressure gauges provide users with a number of advantages in certain applications. They are ideal for equipment with excessive vibration and pulsation, such as pumps, compressors, and machine tools. The liquid fill minimizes the effects of these severe environments, protects the gauge internals, and provides continuous lubrication in the mechanism, adding up to extended service life. Liquid filling also provides greater protection of the gauge internals from corrosive atmospheres. Gauges can be filled with a variety of fluids, including glycerin, mineral oil, and silicone oil.



PGM-100L-100PSI/7BAR, \$77, shown smaller than actual size.

PGM-63B-1000PSI/70BAR, \$57, shown smaller than actual size.

SPECIFICATIONS

Accuracy: 63 mm $\pm 1.6\%$ of span, 100 mm $\pm 1\%$ of span (per DIN 16 005)

Working Pressure: 75% of full scale

Overrange Protection: 130% of full scale

Ambient Temp Range: -40 to 60°C (-40 to 140°F)

Process Temp Range: -20 to 80°C (-4 to 176°F)

Degree of Protection: NEMA 4 (IP65)

Element: 316 SS

Window:

63 mm (2.5"): Polycarbonate

100 mm (4"): Laminated safety glass

Dial: White aluminum with black lettering

Pointer: Aluminum alloy, black painted

Case and Bezel Ring: 304 SS

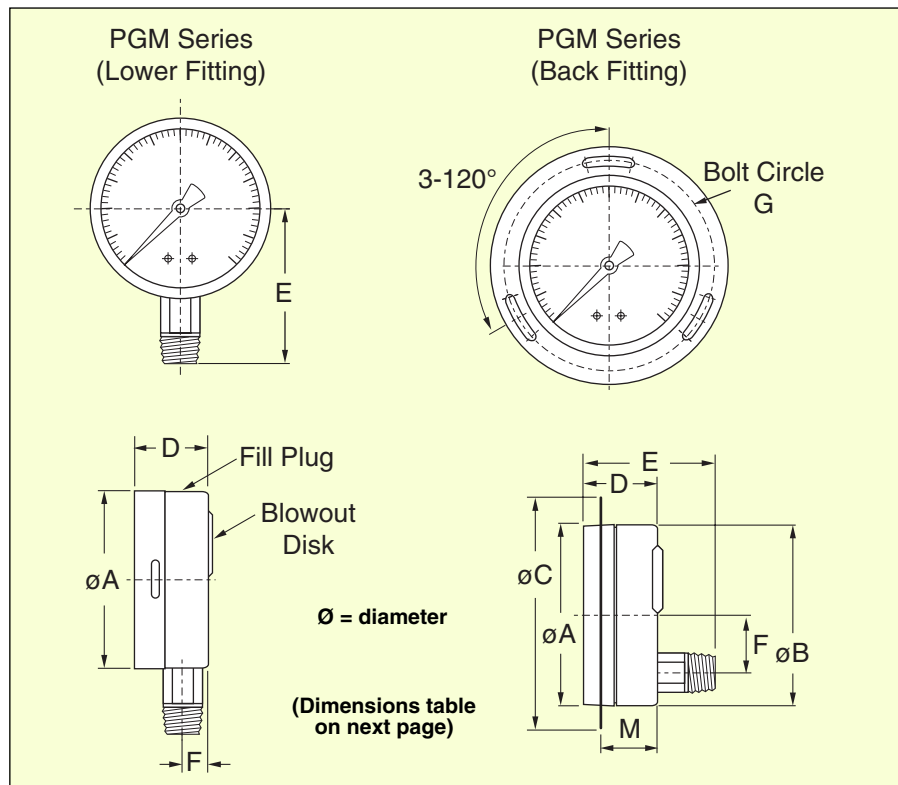
Movement: 304 SS

Pressure Connection: 316 SS, ¼ MNPT on 63 mm (2.5"), ½ MNPT on 100 mm (4")

Blowout Protection:

63 mm (2.5"): Top-mounted rubber disc

100 mm (4"): Back-mounted rubber disc



HOW TO ORDER PGM SERIES GAUGES

MOST POPULAR RANGES HIGHLIGHTED!

| STANDARD RANGES | | |
|-----------------|--------------------|-------------------|
| RANGE CODE | INNER SCALE (psi) | OUTER SCALE (bar) |
| 30V/-1BAR | 30 inHg vac to 0 | -1 to 0 |
| 30V15/-1/1BAR | 30 inHg vac to 15 | -1 to 1 |
| 30V30/-1/2BAR | 30 inHg vac to 30 | -1 to 2 |
| 30V60/-1/4BAR | 30 inHg vac to 60 | -1 to 4 |
| 30V100/-1/7BAR | 30 inHg vac to 100 | -1 to 7 |
| 30V150/-1/10BAR | 30 inHg vac to 150 | -1 to 7 |
| 15PSI/1BAR | 0 to 15 | 0 to 1 |
| 30PSI/2BAR | 0 to 30 | 0 to 2 |
| 60PSI/4BAR | 0 to 60 | 0 to 4 |
| 100PSI/7BAR | 0 to 100 | 0 to 7 |
| 160PSI/11BAR | 0 to 160 | 0 to 11 |
| 200PSI/14BAR | 0 to 200 | 0 to 14 |
| 300PSI/20BAR | 0 to 300 | 0 to 20 |
| 400PSI/28BAR | 0 to 300 | 0 to 28 |
| 600PSI/40BAR | 0 to 600 | 0 to 40 |
| 800PSI/55BAR | 0 to 300 | 0 to 55 |
| 1000PSI/70BAR | 0 to 1000 | 0 to 70 |
| 1500PSI/100BAR | 0 to 1500 | 0 to 100 |
| 2000PSI/140BAR | 0 to 2000 | 0 to 140 |
| 2300PSI/160BAR | 0 to 2300 | 0 to 160 |
| 3000PSI/200BAR | 0 to 3000 | 0 to 200 |
| 3500PSI/250BAR | 0 to 3500 | 0 to 250 |
| 5000PSI/350BAR | 0 to 5000 | 0 to 350 |
| 6000PSI/400BAR | 0 to 6000 | 0 to 400 |
| 10000PSI/700BAR | 0 to 10000 | 0 to 700 |
| 11600PSI/800BAR | 0 to 11600 | 0 to 800 |



PGM-100L-100PSI/7BAR, with lower mount fitting, \$77, shown smaller than actual size.



PGM-63B-1000PSI/70BAR, with flange mount and back fitting, \$57, shown smaller than actual size.

Dimensions: mm (in)

| DIAL SIZE | FITTING | A | B | C | D | E | F | G | M |
|-------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|
| 63 mm (2½") | Lower mount | 63.7 (2.51) | — | — | 33.0 (1.30) | 55.7 (2.19) | 11.0 (0.44) | — | — |
| 63 mm (2½") | Flange mount | 63.7 (2.51) | 66.2 (2.61) | 86.0 (3.39) | 33.0 (1.30) | 57.0 (2.24) | 13.0 (0.51) | 75.0 (2.95) | 28.0 (1.10) |
| 100 mm (4") | Lower mount | 101.3 (3.99) | — | — | 50.0 (1.97) | 83.0 (3.27) | 29.0 (0.63) | — | — |
| 100 mm (4") | Flange mount | 101.3 (3.99) | 103.1 (4.06) | 131.0 (5.16) | 50.0 (1.97) | 83.0 (3.27) | 29.0 (1.14) | 116.0 (4.57) | 45.0 (1.77) |

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

| MODEL NO. | PRICE ≤1000 psi | PRICE >1000 psi | DIAL SIZE mm (in) | CONNECTION |
|--------------|-----------------|-----------------|-------------------|-------------|
| PGM-63L-[*] | \$40 | \$44.50 | 63 (2½) | ¼ NPT lower |
| PGM-63B-[*] | 57 | 62.50 | 63 (2½) | ¼ NPT back |
| PGM-100L-[*] | 77 | 82.00 | 100 (4) | ½ NPT lower |
| PGM-100B-[*] | 102 | 107.00 | 100 (4) | ½ NPT back |

[*] Insert range code from Standard Ranges table.

Ordering Examples: PGM-63B-15PSI/1BAR, 63 mm (2.5") gauge with a back fitting and scaled 0 to 15 psi and 0 to 1 bar, \$57.
PGM-100L-15PSI/1BAR, 100 mm (4") gauge with a lower fitting and scaled 0 to 15 psi and 0 to 1 bar, \$77.

Recommended Reference Book: Engineering Formulas, GE-2383, \$35. See Section Y for Additional Books





UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

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GERMANY

www.omega.de
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Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters