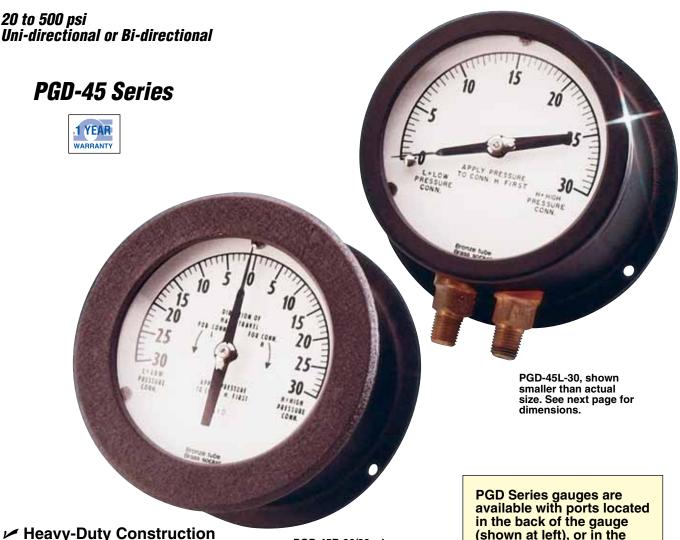
## DIFFERENTIAL PRESSURE GAUGES UNI-DIRECTIONAL OR BI-DIRECTIONAL



Heavy-Duty Construction

✓ Double-Strength, **Shatter-Resistant Glass** 

✓ 2-1-2% ANSI Grade A Accuracy

OMEGA's PGD Series differential pressure gauges are rugged industrial gauges that indicate the difference between 2 input connections. Differential ranges provide the maximum resolution for applications in which one input is always at a higher pressure than the other. In cases in which one input can be higher or lower than the other, a bi-directional differential range should be used.

The PGD Series is constructed with 2 independent Bourdon tubes. The opposing Bourdon tubes are linked

PGD-45B-30/30, shown smaller than actual size. See next page for dimensions.

to a single pinion gear that rotates a pointer for direct pressure readings. By using 2 independent Bourdon tubes, the gauge can handle liquids or gases on either or both ports.

The large 4½" dial makes reading pressure easy. Each gauge is equipped with a micrometer adjustment for rezeroing the gauge. Gauges are available with ports located in the lower (six o'clock) position or in the rear (for panel mounting).

## **SPECIFICATIONS**

(shown at right).

Accuracy: 2-1-2%, ANSI Grade A 2% first 10%, 1% middle 80%,

lower (six o'clock) position

2% top 10% Dial Size: 41/2" Dial Arc: 210°

Window: Double-strength glass Connection: 1/4 MNPT

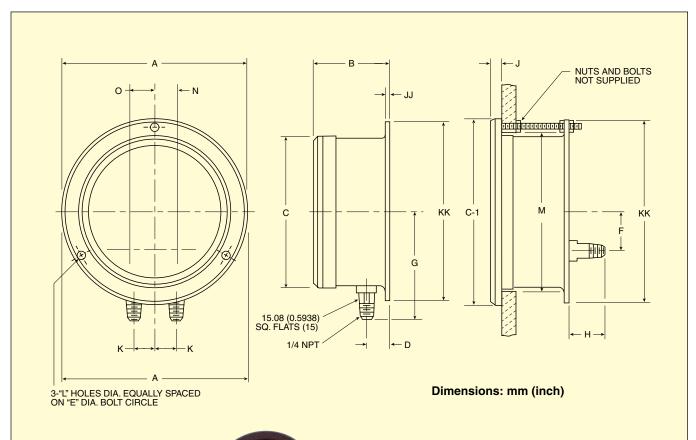
Sensor Type: Bourdon tube

**Wetted Parts:** Tube: Bronze Fittings: Brass

Case: Black epoxy-coated aluminum **Operating Temperature:** 65°C (150°F)

Weight: 1.4 kg (3 lb)

## DIFFERENTIAL OR BI-DIRECTIONAL RANGES



PGD-45B-30/30, shown smaller than actual size. See below for dimensions.





PGD-45L-30, shown smaller than actual size. See below for dimensions.

To Order										
MODEL NO.	DIAL SIZE	CONNECTION								
PGD-45B-(*)	41/2"	Back								
PGD-45L-(*)	41/2"	Lower								

<sup>\*</sup> Insert range code from table at right.

Ordering Example: PGD-45B-30, 114 mm ( $4^{1/2}$ ") differential pressure gauge with back input connection and 0 to 30 psi uni-directional range.

RANGE CODE	RANGE (psi)	FIGURE INTERVAL	MINOR GRADUATION	STATIC PRES. LIMIT (psi)*			
20	0/20	5	0.2	30			
30	0/30	5	0.5	60			
60	0/60	10	1	120			
100	0/100	10	1	200			
200	0/200	20	2	300			
600	0/600	100	10	900			
1K	0/1000	100	10	1500			
15/15	15/0/15	5	0.5	60			
30/30	30/0/30	10	1	120			
50/50	50/0/50	10	1	200			
100/100	100/0/100	20	2	300			
200/200	200/0/200	50	5	600			
500/500	500/0/500	100	10	1500			

<sup>\*</sup> Maximum pressure that can be applied to either port on the gauge. **PGD-FMR**, black flush mount ring for panel mounting.

Dimensions: mm (inch)

Dimensional min (men)																	
GAUGE SIZE	A	В	C	C1	D	ш	F	G	Ξ	7	K	L	M	N	0	J	KK
4½"	149 (5 <sup>7</sup> %)	82 (3½)	126 (4 <sup>15</sup> / <sub>16</sub> )	149 (5 <sup>7</sup> / <sub>8</sub> )	26 (1½6)	137 (5%)	27 (1½6)	91 (3 <sup>1</sup> / <sub>16</sub> )	40 (1%)	5 (¾16)	15 (19%32)	6 (7/32)	125 (4 <sup>15</sup> / <sub>16</sub> )	17 ( <sup>21</sup> / <sub>32</sub> )	17 ( <sup>21</sup> / <sub>32</sub> )	3 (1/8)	148 (5 <sup>13</sup> / <sub>16</sub> )