

Pressure gauge for scuba diving (finimeter) Models 216.06.050 and 216.40.050

WIKA data sheet PM 02.31

Applications

- Scuba diving
- For compressed air, Nitrox or oxygen

Special features

- Full compliance with DIN EN 250, DIN EN 13949, DIN EN 14143
- Model 216.06.050 suitable for diving depths of up to 500 m [1,640 ft]
- Compact design
- High impact resistance of the window from polycarbonate
- Phosphorescent dial



Fig. left: Model 216.06.050

Fig. right: Model 216.40.050

Description

These pressure gauges meet the highest standards in terms of quality and reliability in scuba diving applications. The compact finimeter is a component of diving equipment for cylinder pressure measurement.

Due to the fine scale graduation, the pressure is very well readable. Through its long fade-out time, the phosphorescent dial also makes the readability easier in poor lighting conditions.

For the diver's safety, a window of shatterproof polycarbonate is used.

Specifications

Basic information		
Standard		■ DIN EN 250, respiratory equipment for use with compressed air ■ DIN EN 14143, respiratory equipment, self-contained re-breathing apparatus ■ DIN EN 13949, respiratory equipment for use with compressed Nitrox and oxygen
Diving depth		
Model 216.06.050	≤ 100 m [328 ft]	
Model 216.40.050	≤ 500 m [1,640 ft]	
Nominal size (NS)	Ø 50 mm [2"]	
Connection location	Lower mount (radial)	
Window	Polycarbonate	
Case	Brass, nickel-plated	
Movement	Copper alloy	

Measuring element	
Type of measuring element	Bourdon tube, helical type
Material	
Model 216.06.050	Copper alloy
Model 216.40.050	Stainless steel

Accuracy specifications	
Accuracy class	Indication accuracy per EN 250
Temperature error	On deviation from the reference conditions at the measuring system: ≤ ±0.4 % per 10 °C [≤ ±0.4 % per 18 °F] of full scale value
Reference conditions	
Ambient temperature	+20 °C [68 °F]

Scale range		
Scale range		
Model 216.06.050	Maximum 0 ... 400 bar [5,800 psi]	
Model 216.40.050	Maximum 0 ... 600 bar [8,700 psi]	
Dial		
Scale colour	Black	
Material	Model 216.06.050	Plastic
	Model 216.40.050	Aluminium
Version	Phosphorescent background with long fade-out time	
	Other scales or customer-specific dials, e.g. with red mark, circular arcs or circular sectors, on request	
Pointer		
Instrument pointer	Model 216.06.050	Aluminium, black
	Model 216.40.050	Copper alloy, black
Mark pointer/drag pointer	■ Without ■ Red mark pointer on dial, fixed	
Pointer stop pin	At zero point	

Other scale ranges on request

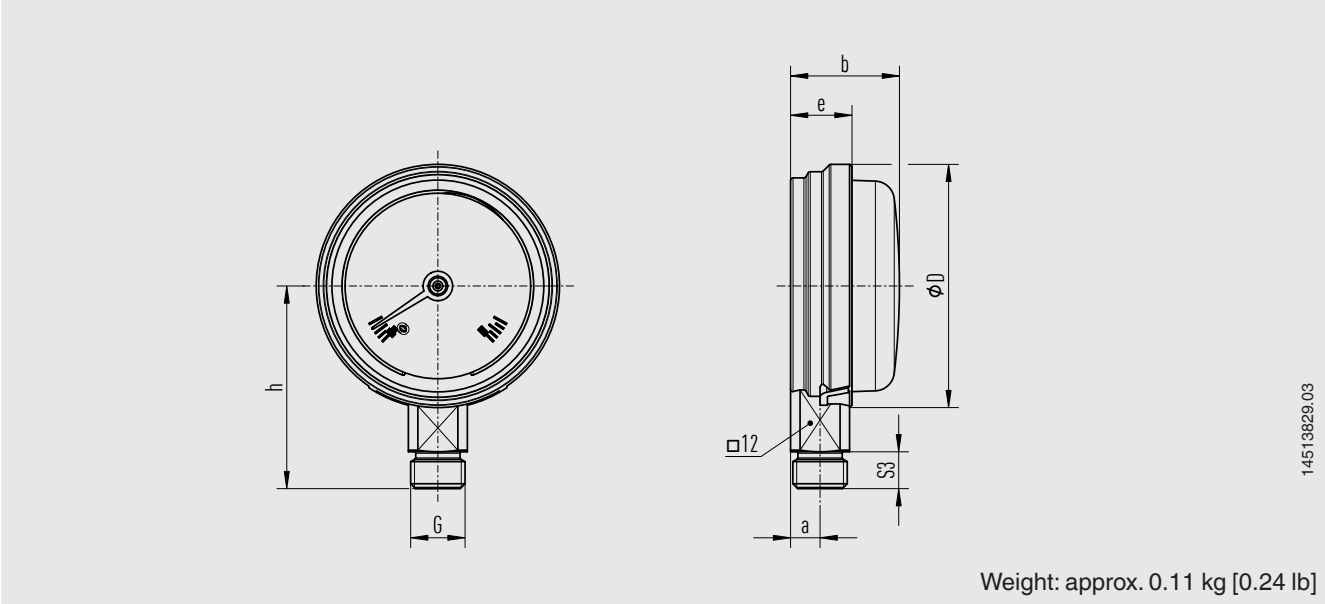
Process connection		
Standard	■ EN 837-1	
	■ ANSI B1.1	
Size		
ANSI B1.1	7/16-20 UNF, male thread	
EN 837-1	■ G ⅜ B, male thread	
	■ M12 x 1.5, male thread (only for model 216.40.050)	
Restrictor	■ Without	
	■ Ø 0.3 mm [0.012"], copper alloy	
Material (wetted)		
Process connection	Copper alloy	
Bourdon tube	Model 216.06.050	Copper alloy
	Model 216.40.050	Stainless steel

Other process connections on request

Operating conditions		
Pressure limitation	Steady	3/4 x full scale value
	Fluctuating	2/3 x full scale value
	Short time	Full scale value

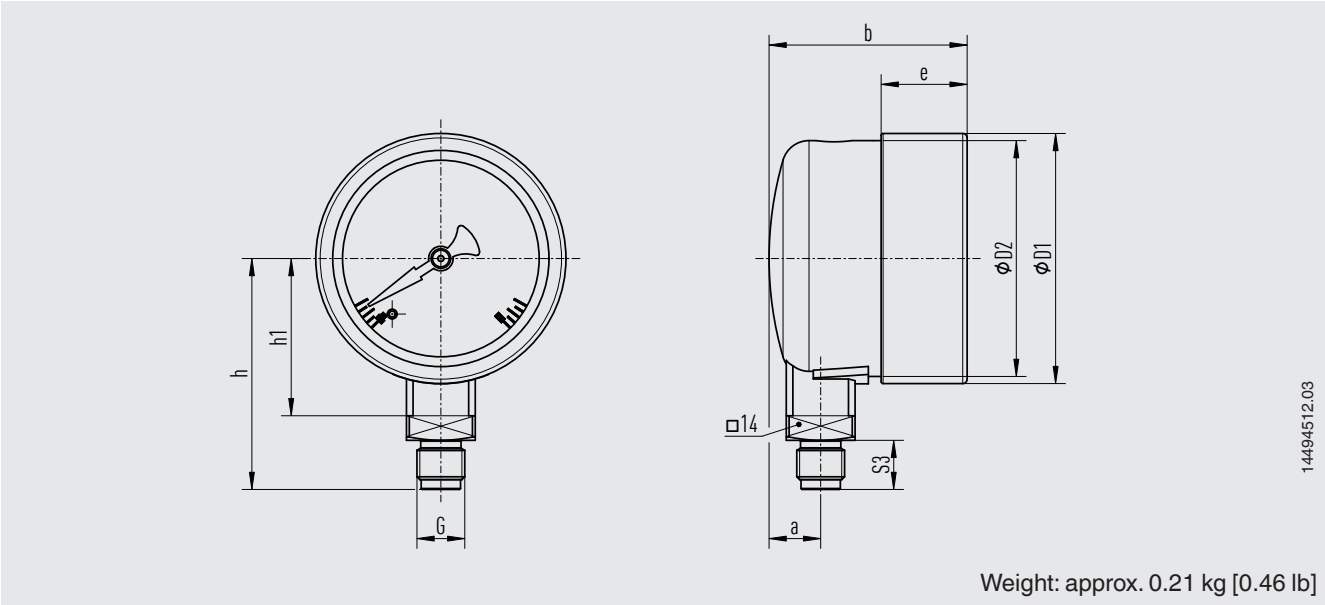
Dimensions in mm [in]

Model 216.06.050



G	Dimensions in mm [in]						
	D	a	b ±0.5 [0.02]	e	h ±1 [0.04]	S3	SW
G ½ B	49.5 [1.95]	6 [0.24]	22 [0.87]	12.5 [0.49]	41 [1.61]	12.5 [0.49]	12 [0.47]
7/16-20 UNF	49.5 [1.95]	6 [0.24]	22 [0.87]	12.5 [0.49]	41 [1.61]	7.5 [0.30]	12 [0.47]

Model 216.40.050



G	Dimensions in mm [in]							
	D1	D2	a	b ±0.5 [0.02]	h ±1 [0.04]	h1 ±0.5 [0.02]	S3	SW
G ½ B	51 [2.01]	48 [1.89]	10.5 [1.17]	40 [1.57]	47 [1.85]	32 [1.26]	10 [0.39]	14 [0.55]
M12 x 1.5	51 [2.01]	48 [1.89]	10.5 [1.17]	40 [1.57]	50 [1.97]	32 [1.26]	13 [0.51]	14 [0.55]

Ordering information

Model / Scale range / Process connection / Special design feature

© 03/2018 WIKA Alexander Wiegand SE & Co. KG, alle Rechte vorbehalten.
Die in diesem Dokument beschriebenen Geräte entsprechen in ihren technischen Daten dem derzeitigen Stand der Technik.
Änderungen und den Austausch von Werkstoffen behalten wir uns vor.



WIKA Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Straße 30
63911 Klingenberg/Germany
Tel. +49 9372 132-0
info@wika.de
www.wika.de