

# Bourdon Tube Pressure Gauges

## Liquid Filled Gauge with Forged Brass Case

### 7/16-20 SAE Connection

### Type 213.40S

WIKA Data Sheet 213.40S

#### Applications

- Intended for adverse service conditions where pulsation or vibration exists
- Suitable for gaseous or liquid media that will not obstruct the pressure system
- Hydraulics & compressors

#### Special features

- Vibration and shock resistant
- Solid forged-brass case and socket
- Pressure ranges up to 15,000 psi

#### Standard Features

##### Design

ASME B40.100 & EN 837-1

##### Sizes

2½" (63 mm)

##### Accuracy class

± 2/1/2% of span (ASME B40.100 Grade A)

##### Ranges

Vacuum / Compound to 200 psi  
Pressure from 15 psi to 15,000 psi  
or other equivalent units of pressure or vacuum

##### Working pressure

Steady: 3/4 scale value  
Fluctuating: 2/3 full scale value  
Short time: full scale value

##### Operating temperature

Ambient: -4°F to +140°F (-20°C to +60°C) - glycerine filled  
-40°F to +140°F (-40°C to +60°C) - silicone filled  
Medium: +140°F (+60°C) maximum

##### Temperature error

Additional error when temperature changes from reference temperature of 68°F (20°C) ±0.3% for every 18°F (10°C) rising or falling. Percentage of span.



Bourdon Tube Pressure Gauge Model 213.40S

##### Weather protection

Weather tight (NEMA 4X / IP 65)

##### Pressure connection

Material: copper alloy  
Lower mount (LM) or center back mount (CBM)  
7/16-20 SAE with zinc-plated steel washer, hex-nut and Nitrile o-ring

##### Bourdon tube

Material: copper alloy  
≤ 1,000 PSI: C-type, soldered  
≥ 1,500 PSI: helical type, soldered

##### Movement

Copper alloy

##### Dial

White aluminum with black lettering and stop pin

##### Pointer

Black aluminum

##### Case

Gold-painted forged brass with integral connection and vent plug

##### Cover ring

High gloss brass-plated ABS

**Window**

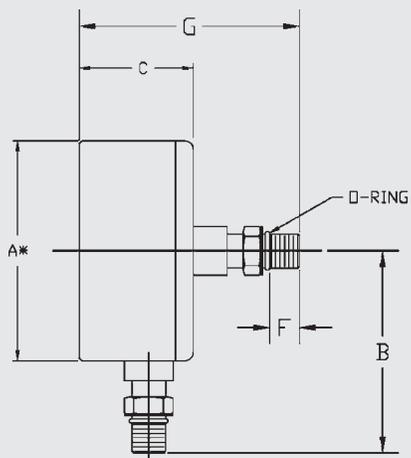
Acrylic with Buna-N gasket

**Case fill**

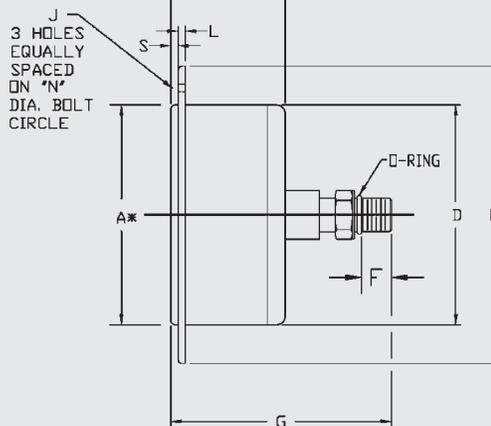
Glycerine 99.7%

**Optional extras**

- Brass restrictor
- Front or rear flange
- Laminated safety glass or flat glass window
- Red drag pointer or mark pointer
- Silicone or Fluorolube case filling
- Custom dial layout
- Other pressure scales available  
bar, kPa, MPa, kg/cm<sup>2</sup> and dual scales

**Dimensions**

LM/CBM  
213.40S 2 1/2"  
7/16-20 THD.



CBM/FF  
213.40S 2 1/2"  
7/16-20 THD.

Size		A	B	C	F	G	J	L	M	N	S	W
2.5"	mm	63	55	37	6.2	63	3.5	2.0	85	75	2.0	22
	in	2.5	2.17	1.46	0.25	2.48	0.14	0.08	3.35	2.95	0.08	0.87

**Ordering information**

Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required  
 Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.  
 Modifications may take place and materials specified may be replaced by others without prior notice.

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