Mechanical Pressure Measurement

Bourdon Tube Pressure Gauges Dry or Liquid Filled Gauge with SAE Connection Type 212.53S - Dry Case Type 213.53S - Liquid-filled Case

WIKA Datasheet 21X.53S

Applications

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

Product features

- Vibration and shock resistant (with liquid filling)
- 7/16" -20 SAE connection
- ?Pressure ranges up to 15,000 psi



Bourdon Tube Pressure Gauge Model 213.53S

Specifications

Design

ASME B40.100 & EN 837-1

Sizes

21/2" (63 mm)

Accuracy class

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

Ranges

Vacuum / Compound to 200 psi (16 bar) Pressure from 15 psi (1 bar) to 15,000 psi (1000 bar) 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: -40°F to +140°F (-40°C to +60°C) - dry

-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) $\pm 0.4\%$ of span for every 18°F (10°K) rising or falling.

Weather protection

Weather tight (NEMA 4X / IP 66)

Pressure connection

Material: copper alloy Lower mount (LM) 7/16" - 20 SAE with o-ring, washer and lock nut

Bourdon tube

Material: copper alloy ≤ 870 psi (60 bar): C-shape > 870 psi (60 bar): Helical type

Movement

Copper alloy

Dial

White ABS with stop pin and with black lettering

Pointer

Black aluminum



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Case

304 stainless steel with vent plug and stainless steel crimp ring. Suitable for liquid filling. Case connection sealed with EPDM o-ring (glycerine filled) or Viton o-ring (dry or silicone filled).

Window

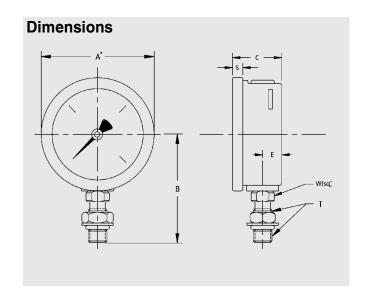
Polycarbonate with Buna-N gasket

Case fill

Glycerine 99.7% - Type 213.53S

Optional extras

- Brass restrictor
- External zero adjustment (2½" only)
- Red drag pointer or mark pointer
- Silicone or Halocarbon Oil case filling
- Custom dial layout
- Other pressure scales available bar, kPa, MPa, kg/cm² and dual scales



Size									
		Α	В	С	E	S	Т	W	Weight
2.5"	mm	69	61.2	31	13	6		14	0.38 lb. dry
	in	2.69	2.41	1.23	0.51	0.24	7/16-20	0.55	0.46 lb. filled



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