



Datasheet

Stock No: 258-2403

RS Pro 7094940 Analogue Positive Pressure Gauge Bottom Entry 25bar, Connection Size G 1/2



Image representative of range

Applications

- With liquid-filled case for applications with high dynamic pressure loads or vibrations 1)
- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience
- Process industry: Chemical/petro-chemical, power stations, mining, on- and offshore, environmental technology, machine building and general plant construction



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Special features

- Excellent load-cycle stability and shock resistance
- All stainless steel construction
- German Lloyd, Gosstandart and DVGW approval
- Scale ranges up to 0 ... 1,600 bar

Description

Design

EN 837-1

Nominal size in mm

63, 100, 160

Accuracy class

NS 63: 1.6 NS 100, 160: 1.0

Scale ranges

NS 63: 0 ... 1 to 0 ... 1,000 bar NS 100: 0 ... 0.6 to 0 ... 1,000 bar NS 160: 0 ... 0.6 to 0 ... 1,600 bar

or all other equivalent vacuum or combined pressure and

vacuum ranges

Ingress protection

IP 65 per EN 60529 / IEC 60529

Pressure limitation

NS 63: Steady: 3/4 x full scale value

Fluctuating: 2/3 x full scale value

Short time: Full scale value

NS 100, 160: Steady: Full scale value

Fluctuating: 0.9 x full scale value Short time: 1.3 x full scale value

Permissible temperature

Ambient: -40 ... +60 °C without liquid filling

-20 ... +60 °C gauges with glycerine filling 1)

Medium: +200 °C maximum without liquid filling

+100 °C maximum with liquid filling 1)

Temperature effect

When the temperature of the measuring system deviates

from the reference temperature (+20 °C):

max. ±0.4 %/10 K of full scale value



Standard version

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Process connection

Stainless steel 316L (NS 63: 1.4571),

Lower mount (LM) or lower back mount (LBM), NS 63 centre

back mount (CBM)

NS 63: G 1/4 B (male), 14 mm flats

NS 100, 160: G 1/2 B, 22 mm flats

Pressure element

Stainless steel 316L

< 100 bar: C-type

≥ 100 bar: Helical type

Movement

Stainless steel

Dial

Aluminium, white, black lettering, NS 63 with pointer stop pin

Pointer

Aluminium, black

Case

Stainless steel, with pressure relief at case circumference, 12 o'clock (NS 63) and on the back of the case (NS 100 and 160),

Scale ranges \leq 0 ... 16 bar with compensating valve to vent case

Window

Laminated safety glass (NS 63: Polycarbonate)

Ring

Cam ring (bayonet type), stainless steel

Filling liquid (for model 233.50)

Glycerine 99.7 %





Special versions

Gauges for ammonia plants (NS 100 and 160) With temperature scale for refrigerant R 717 (NH₃) in °C, Scale ranges: -1 ... 0 ... 15 bar or -1 ... 0 ... 26 bar

CE conformity

Pressure equipment directive 97/23/EC, PS > 200 bar, module A, pressure accessory

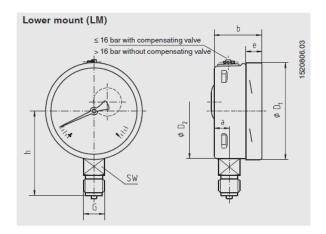
ATEX directive ¹⁾
Ignition protection type "c", constructive safety

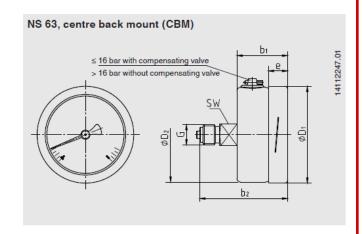
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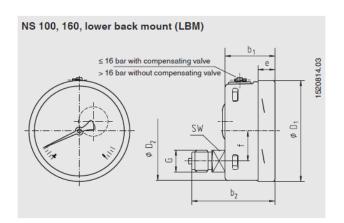
- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Assembly on diaphragm seals see product review DS
- Measuring system Monel (model 26x.50, not with NS 160 back mount connection)
- Measuring system stainless steel 1.4571
- Surface or panel mounting flange, stainless steel
- Panel mounting flange, polished stainless steel
- Triangular bezel, polished stainless steel, with clamp
- Ambient temperatures -40 °C: Silicone oil filling
- Limit indicator at NS 100 and 160, see data sheet SP 09.03
- Pressure gauge with switch contacts, see model PGS23.1x0, data sheet PV 22.02
- Pressure gauge with electrical output signal, see model PGT23.100/160, data sheet PV 12.04



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NS	Dimensions in mm												
	а	b	b ₁	b ₂	D ₁	D ₂	е	f	G	h ±1	sw	Model 232.50	Model 233.50
63	9.5	33	33	57	63	62	11.5	-	G 1/4 B	54	14	0.16	0.20
100	15.5	49.5	49.5	83	101	99	17.5	30	G 1/2 B	87	22	0.60	0.90
160	15.5	49.5 ²)	49.5 ²)	83 1)	161	159	17.5	50	G ½ B	118	22	1.10	2.00

Process connection per EN 837-1 / 7.3

¹⁾ Plus 16 mm with scale ranges ≥ 100 bar 2) Plus 16 mm with scale range 1,600 bar