

Pressure Gauge DN63/80/100/160**Type A10**

Date: April 2019

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**Standard pressure gauge, type A10**

- Several material combinations adopted to media and environment
- Available in liquid filled or dry version
- Connection: Bottom or rear
- Mounting: Direct, surface or panel
- More than 40 different connection threads in 3 materials; e.g. G½B brass
- Good long-term stability
- Vibration proof
- Scale in accordance with international standards
- DNV approved

Application

This gauge series is well suited for applications in any process and marine environment where local indication is required.

Module System

The TEMPRESS program of connecting nipples and mounting auxiliaries makes it possible to deliver thread type and mounting form as required.

Temperature compensation

The unique system for temperature compensation ensures a correct reading even under heavily fluctuating ambient temperatures (0-60°C).

Safety

The temperature compensation system simultaneously works as blasting protection, i.e. if the measuring system blasts due to overpressure, the temperature compensation is blown out from the back of the instrument.

Approved by DNV (Det Norske Veritas).

Specifications	
Pressure Gauges:	DN 63 type A1001 DN 80 type A1002 DN 100 type A1003 DN 160 type A1004
Case material: <i>Option:</i> Front glass: <i>Option:</i> Front ring	Steel, black enamelled AISI304 Hardened Acrylic AISI316
Liquid filling	Glycerine or silicone
Connection	Brass, steel or AISI316 See datasheet "connectors"
Measuring system	Brass/bronze, steel or AISI316
Measuring range: Min. span:	From -1 bar through 1600 bar 1 bar
Accuracy	Cl. 1.0 (± 1% FS) DN63: Cl. 1,6 (±1,6FS)
Measuring units	bar, Kpa, Mpa, Kp/cm ³ , Kg/cm ² , lb/in ² , psi, mH ₂ O, mbar, "HG, cmHg. When dual scale marking is selected, the main unit is the inner scale.

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Agent/Dealer:



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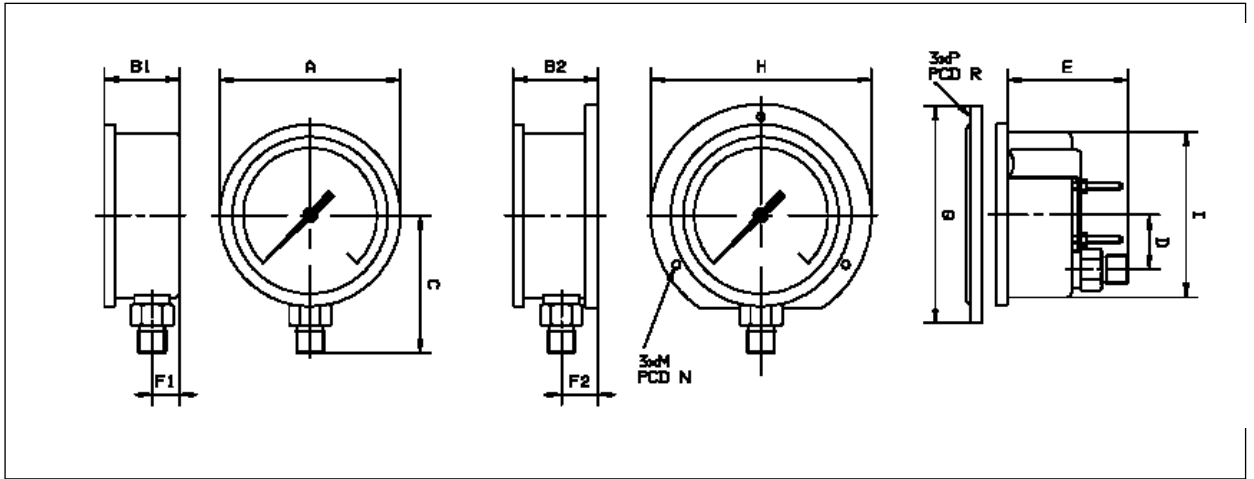
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Drawings and Dimensions

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Dimensions in mm

DN63		DN80		DN100		DN160	
A	Dia. 69	A	Dia. 88	A	Dia. 108	A	Dia. 167
B1	35	B1	44	B1	45	B1	49
B2		B2	50	B2	51	B2	55
C	56	C	70	C	83	C	115
D		D	26	D	33	D	33
E	56	E	59	E	72	E	76
F1		F1	17	F1	16	F1	17
F2		F2	23	F2	23	F2	23
G		G	Dia. 108	G	Dia. 129	G	Dia. 192
H		H	- 110	H	- 132	H	- 196
I	Dia. 60	I	- 78	I	- 98	I	- 156
M	-	M	- 4,8	M	- 4,8	M	- 5,8
N	-	N	- 95	N	- 117	N	- 178
P	-	P	- 4,8	P	- 4,8	P	- 5,5
R	-	R	- 95	R	- 116	R	- 178

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Ambient and media temperature										
			Media temperature				Ambient temperature			
Dry gauge	Glass type	System material	Min.		Max.		Min.		Max.	
Std. gauge	Acrylic	Brass/bronze	-20°C	-4°F	70°C	160°F	-10°C	14°F	70°C	160°F
Std. gauge	Toughened Acrylic	Steel / AISI 316	-20°C	-4°F	200°C	390°F	-10°C	14°F	70°C	160°F
			-20 C	-4°F	130°C	265°F	-10°C	14°F	120°C	250°F
Liquid filled gauge	Filling liquid	System material								
Std. gauge	Glycerine Glycerine	Brass/bronze Steel / AISI 316	0°C	0°C	32°F	32F	70°C*)	100°F*)	160°F*)	210°F*)
			0°C				0°C	32°F	32°F	60°C*)
Std. gauge	Silicone		-40°C		-40°C		70°C*)		160°F*)	
							-40°C	-40°C	50°C*)	120°F*)

*) The average value of the maximum ambient temperature and the media temperature must not exceed the maximum ambient temperature.

Example: at a media temperature of 100°C the ambient temperature must not exceed 20°C, when glycerine filled.

$$\frac{\text{Media temperature} + \text{Ambient temperature}}{2} \leq \text{maximum ambient temperature} \left(\frac{100^\circ\text{C} + 20^\circ\text{C}}{2} \right) = 60^\circ\text{C}$$

Temperature compensation

The unique temperature compensation system ensures an accurate display. Under conditions where the ambient temperature may vary, automatic compensation is made for temperature changes of up to 60°C.

The temperature compensation system also functions as a blow-out mechanism. Should the measuring system explode due to excess pressure, the temperature compensation system is pushed out the back of the instrument.

Filling liquid	Span ≤ 2 bar ≤ 29 psi		Span > 2 bar < 4 bar >29 psi < 59 psi		Span ≥ 4 bar ≥ 59 psi	
	°C	°F	°C	°F	°C	°F
Glycerine	NA	NA	0-40	32-120	0-60	32-140
Silicone	0-40	32-105	0-50	32-105	0-50	32-120

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