

Process pressure gauge, SolidFront housing Model: PN59



Pressure

CE EN837-1

Applications

- Water treatment industry
- Sewage pressure control
- Chemical and petrochemical plants
- Offshore oil
- Mining and metallurgy industry
- OEM customization
- Low temperature applications

Features

- Sturdy and safe case design
- Provide epoxy resin coating
(ultra-high corrosion resistance)
- A variety of pressure element materials,
pressure connections and range options

Specifications

Design

Comply with the ASME B40.100 standard

Dial size(mm)

115mm(4.5")

Accuracy class

±0.5 (ASME B40.100, Grade 2A)

Scale Range

0-250MPa

Or all other equivalent vacuum or compound pressure and vacuum ranges

Pressure limitation

Steady: 1 x full scale range

Fluctuation: 0.9 x full scale range

Short Time: 1.3 full scale range

Permissible temperature

Ambient: -40...+ 70°C, dry

-7 ...+ 70°C, glycerin

-40... + 70°C, silicone oil

Medium: -40... + 120°C, dry

-20... + 70°C, glycerin

-40... + 70°C, silicone oil

Storage temperature

-40... + 120°C

Temperature effect

When deviating from the reference conditions of the measurement system:

≤ ±0.04% of full scale per °C (reference temperature: 20 °C)

≤ ±0.4% of full scale per °F (reference temperature: 68 °F)



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Specifications

Process connection

Stainless steel 316L
For other materials, please consult the factory

Pointer

Adjustable, aluminum alloy, black

Pressure element

Stainless steel 316L
For other materials, please consult the factory

Case

PBTP, safety structure, with integrated front bezel and pressure relief rear cover

Movement

Stainless steel

Window

Safety glass

Dial

Aluminum alloy, white

Case filling liquid

- Dry
- Glycerin(Standard configuration of oil-filled gauge)
- Silicone oil
- Halogenated hydrocarbon oil

Ring

PC complies with UL 94-V-0)

Process connection location

- Direct installation
- wall installation
- panel-mounted pipeline installation
- remote installation

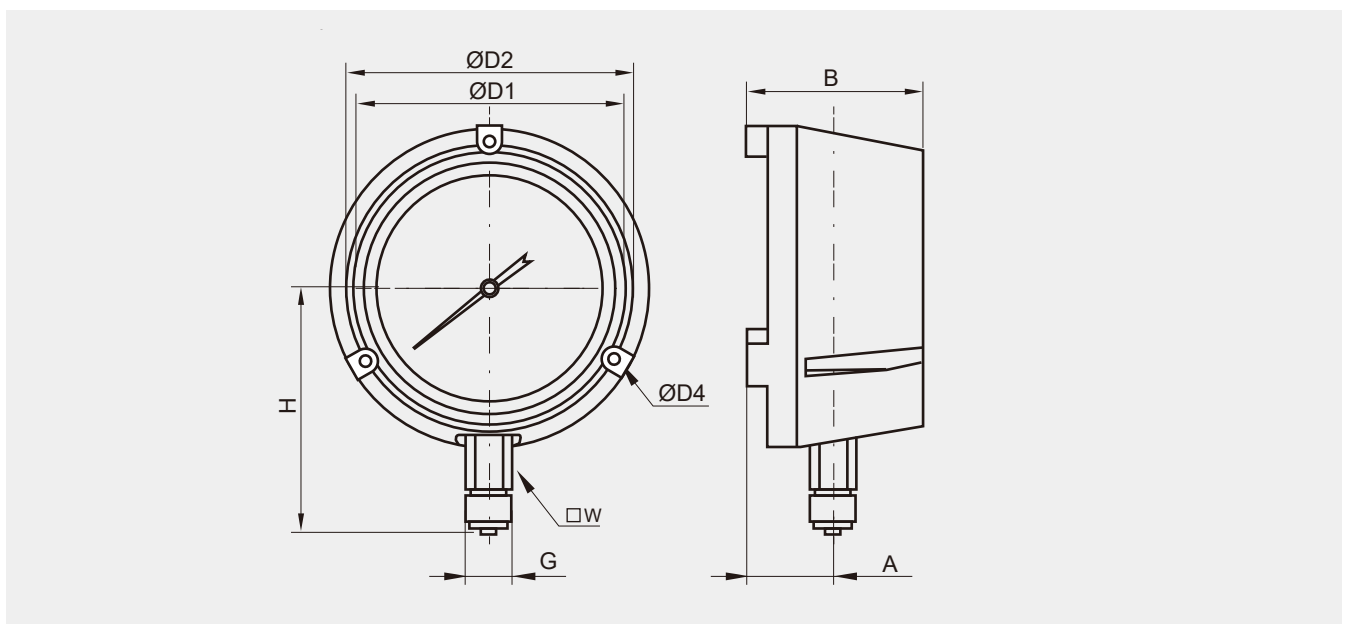
Ingress protection

Comply with the IEC/EN 60529 standard
IP54 (liquid gauge IP65)



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Dimensions in mm



Dial size	Dimensions in mm						Weight(kg)	
	A	B ± 0.5	D	G	H ± 1	SW	Dry gauge	liquid gauge
4.5"	40	83.5	130	M20x1.5	105	55	1.132	X



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Dial size(mm)

(115) -115mm (4.5")

Process connection location

(L)-Bottom mount(radial)

(LB)-Lower back mount(axial)

Case filling

(D) -Dry

(L) -Glycerin(standard configuration of oil-filled gauge)

(S) -Silicone oil

(H)-Halogenated hydrocarbon oil

Process connection sizes

(06)-1/4 NPT male, N/A for ranges over 20,000 psi

(08) -1/2 NPT male, N/A for ranges over 20,000 psi

(13) -9/16-18 UNF male thread with 60° sealing cone

Option

(AC) -Acrylic instrument cover

(N/A) -" "

Scale Range(coding examples only, see range table on page 5 for all standard ranges)

0.3BR=0...0.3bar N=Vaccum range

0.3KG=0...0.3kg/cm² N1/3BR="-1...3bar"

6KP=0...6kPa

0.6MP=0...0.6MPa

30#=0...30psi



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Pressure range selection table

Scale ranges					
vacuum	Bar	Kg/cm ²	Psi	kPa	MPa
	N1BR	N1KG	N30HG	N100KP	N0.1MP
	N1/0.6BR	N1/0.6KG	—	N100/60KP	N0.1/0.06MP
	—	—	N30HG/15#	—	—
	N1/1.5BR	N1/1.5KG	—	N100/150KP	N0.1/0.15MP
	—	—	N30HG/30#	—	—
	N1/3BR	N1/3KG	—	N100/300KP	N0.1/0.3MP
	—	—	N30HG/60#	—	—
	N1/5BR	N1/5KG	—	N100/500KP	N0.1/0.5MP
	—	—	N30HG/100#	—	—
	N1/9BR	N1/9KG	—	N100/900KP	N0.1/0.9MP
	1BR	1KG	15#	100KP	0.1MP
	—	—	20#	—	—
	1.6BR	1.6KG	—	160KP	0.16MP
	—	—	30#	—	—
	2.5BR	2.5KG	—	250KP	0.25MP
	4BR	4KG	60#	400KP	0.4MP
	6BR	6KG	—	600KP	0.6MP
	—	—	100#	—	—
	—	—	120#	—	—
	10BR	10KG	—	1000KP	1MP
	—	—	160#	—	—
	—	—	200#	—	—
	16BR	16KG	—	1600KP	1.6MP
	—	—	300#	—	—
	25BR	25KG	—	2500KP	2.5MP
	—	—	400#	—	—
	—	—	500#	—	—
	40BR	40KG	600#	4000KP	4MP
	—	—	800#	—	—
	60BR	60KG	—	6000KP	6MP
	—	—	1000#	—	—
	100BR	100KG	1500#	10000KP	10MP
	—	—	2000#	—	—
	160BR	160KG	—	16000KP	16MP
	—	—	3000#	—	—
	250BR	250KG	—	25000KP	25MP
	—	—	4000#	—	—
	—	—	5000#	—	—
	400BR	400KG	6000#	40000KP	40MP
	—	—	8000#	—	—
	600BR	600KG	—	60000KP	60MP
	—	—	10000#	—	—
	1000BR	1000KG	15000#	100000KP	100MP
	—	—	20000#	—	—
	1600BR	1600KG	—	—	160MP
	—	—	30000#	—	—
	2500BR	2500KG	—	—	250MP

