



# Bourdon tube pressure gauge, stainless steel For panel mounting Model PG23CP

WIKA data sheet PM 02.24











for further approvals see page 3

# **Applications**

- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive environments
- Specifically for the requirements within the process industry, mainly in the chemical and petrochemical industry, the oil and gas industry, power engineering and also in water/wastewater technology
- Particularly suitable for use in wellhead control panels (WHCPs) and hydraulic power units (HPUs)

# 10 15 EN 83720 Dar CO. 18 VOTIKAL

#### Bourdon tube pressure gauge, model PG23CP

# **Special features**

- All welded mounting ring to avoid the ingress of water into the panel (ingress protection IP66)
- All stainless steel construction
- Optionally as safety version "S3" per EN 837-1

# **Description**

The high-quality model PG23CP pressure gauge has been designed especially for the requirements of the process industry. This safety pressure gauge is mainly used for applications in the chemical and petrochemical industry, the oil and gas industry, power engineering and also in water/wastewater technology.

Typical measuring points are on control units and control panels such as hydraulic power units (HPUs). For secure mounting of the instrument, a high-quality front bezel is used. The mounting situations mainly require an IP66 ingress protection. For this reason, the sealing of the model PG23CP to the panel is made using an all welded mounting ring and a matched flat gasket.

Pressure gauges for the process industry are manufactured completely from stainless steel for increased corrosion resist-

ance. This enables use in the measurement of aggressive gaseous or liquid media, also in aggressive environments. In the EN 837-1 standard for pressure gauges, safety versions are defined. For most applications, a safety version is not required. WIKA already manufactures the model PG23CP in the "S1" safety version. This design includes an additional blow-out opening, which vents any impermissible overpressure in the case (e.g. from a burst Bourdon tube) through the back of the case.

For harsh operating conditions (e.g. vibration), the instruments are also available with an optional liquid filling.

WIKA data sheet PM 02.24 · 03/2020

Page 1 of 4







## Standard version

#### Version

EN 837-1

#### Nominal size in mm

63, 100

## **Accuracy class**

NS 63: 1.6 NS 100: 1.0

#### Scale ranges

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

or all other equivalent vacuum or combined pressure and vacuum ranges

#### **Pressure limitation**

NS 100:

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

Fluctuating: 2/3 x full scale value
Short time: Full scale value

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 Medium: +200 °C maximum

## Temperature effect

When the temperature of the measuring system deviates from the reference temperature ( $\pm 20$  °C): max.  $\pm 0.4$  %/10 K of full scale value

# Ingress protection per IEC/EN 60529

IP65

IP66 at the front, after professional panel mounting

#### Process connection

Stainless steel 316L (NS 63: 1.4571)

Lower back mount

NS 63: 1/4 NPT (male), SW 11 NS 100: 1/2 NPT (male), SW 17

## Pressure element

Stainless steel 316L C-type or helical type

#### Movement

Stainless steel

# Dial

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

#### **Pointer**

Aluminium, black

#### Case

Stainless steel, all welded mounting ring, with blow-out device at case circumference, oʻclock (NS 63) and on the back of the case (NS 100), scale ranges  $\leq$  0 ... 16 bar with compensating valve to vent case

#### Window

Laminated safety glass (NS 63: Polcarbonate)

#### Ring

Bayonet ring, stainless steel

#### Sealing

Flat gasket from NBR 2.5 mm

# **Options**

- Other process connection, e.g. autoclave MP: 1/4-28 UNF LH-2A SM250CX20 and autoclave HP: 1/4-28 UNF LH-2A M250C
- Sealings (model 910.17, see data sheet AC 09.08)
- Safety version "S3" with solid baffle wall and blow-out back per EN-837-1
- Restrictor
- Filling liquid glycerine or glycerine-water mixture
  Permissible ambient temperature: -20 ... +60 °C, medium
  temperature: +100 °C maximum
- Filling liquid silicone oil M50



# **Approvals**

Logo	Description	Country
<b>€</b>	<ul> <li>■ Pressure equipment directive         PS &gt; 200 bar, module A, pressure accessory</li> <li>■ ATEX directive (option)         Ignition protection type "c", constructive safety</li> </ul>	European Union
EHLEX	EAC (option)  ■ Hazardous areas	Eurasian Economic Community
<b>©</b>	GOST (option) Metrology, measurement technology	Russia
6	KazInMetr (option) Metrology, measurement technology	Kazakhstan
-	MTSCHS (option) Permission for commissioning	Kazakhstan
	Uzstandard (option) Metrology, measurement technology	Uzbekistan

# **Certificates (option)**

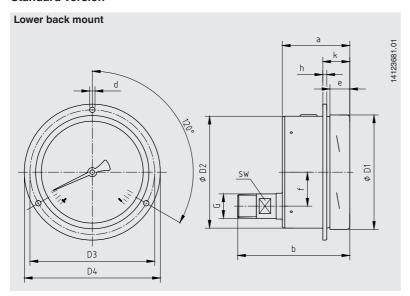
- 2.2 test report per EN 10204
- 3.1 inspection certificate per EN 10204

Approvals and certificates, see website



# **Dimensions in mm**

## Standard version



NS	Dimensions in mm												Weight in kg		
	а	b	D1	D2	D3	D4	d	е	f	h	k	G	SW	unfilled	filled
63	42	69	63	63	75	85	4.8	14.5	18.5	2.5	15	1/4 NPT	11	0.16	0.20
100	59.5	99	101	100	116	132	4.8	17	30	3	21	½ NPT	17	0.60	0.90

Process connection per EN 837-1 / 7.3

# **Ordering information**

03/2020 EN

Model / Nominal size / Scale range / Process connection / Connection location / Options

© 09/2008 WIKA Alexander Wiegand SE & Co. KG, all rights reserved.

The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.

WIKA data sheet PM 02.24 · 03/2020

Page 4 of 4



WIKA Alexander Wiegand SE & Co. KG Alexander-Wiegand-Straße 30

63911 Klingenberg/Germany Tel. +49 9372 132-0 Fax +49 9372 132-406 info@wika.de

www.wika.de