Diaphragm Pressure Gauges
Stainless Steel Series
Model 432.56 High Overpressure Safety up to 40 or 100 bar
Model 432.36 High Overpressure Safety up to 400 bar

Applications

- For measuring points with increased overpressure
- For gaseous, liquid and aggressive media, also in aggressive ambience
- With the open connecting flange option also for particulates-containing and viscous media
- Process industry: chemical/petro-chemical, power stations, mining, on- and offshore, environmental technology, machine building and general plant construction

Special Features

- High overpressure safety, optionally up to 40, 100 or 400 bar, due to metallic diaphragm cushion, without liquid-filled gauge head
- Wide choice of special materials
- Compatible with switch contacts
- All stainless steel construction
- Scale ranges from 0 … 16 mbar

Diaphragm Pressure Gauge Model 432.56

Description

Design
EN 837-3

Nominal size in mm
100, 160

Accuracy class
1.6

Scale ranges
0 ... 16 mbar to 0 ... 250 mbar
0 ... 400 mbar to 0 ... 40 bar
or all other equivalent vacuum or combined pressure and vacuum ranges

Pressure limitation
Steady: full scale value
Fluctuating: 0.9 x full scale value

Overpressure safety
40, 100 or 400 bar

Operating temperature
Ambient: -20 ... +60 °C
Medium: +100 °C maximum

Temperature effect
When the temperature of the measuring system deviates from the reference temperature (+20 °C):
am Messsystem:
max. ±0.8 %/10 K of full scale value

Ingress protection
IP 54 per EN 60 529 / IEC 529

Data Sheets showing similar devices:
Stainless Steel Series; Model 432.50; see data sheet PM 04.03

Standard version

Process connection with lower diaphragm housing
Stainless steel,
G ½ B (male), 27 mm flats

Pressure element
≤ 0.25 bar: stainless steel
> 0.25 bar: NiCrCo-alloy (Duratherm)

Pressure chamber sealing
FPM/FKM

Movement
Stainless steel

Dial
Aluminium, white, black lettering

Pointer
Adjustable pointer, aluminium, black

Case
Stainless steel, with pressure vent,
gauges with liquid filling with compensating valve to vent case
(model 432.36 see Special version)

Upper diaphragm housing
Chrome steel

Window
Laminated safety glass

Bezel ring
Cam ring (bayonet type), stainless steel

Options

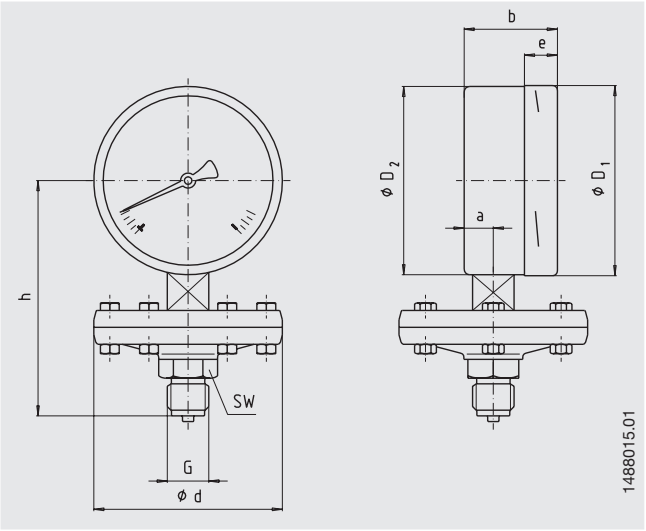
- Other process connection
- Liquid filling (model 433.X6, ingress protection IP 65)
- Safety pattern version (model 43X.36)
- Vacuum safe to -1 bar
- Medium temperature >100 °C
- Admissible ambient temperature -40 ... +60 °C (silicone oil filling)
- Open connecting flanges per DIN/ASME, DN 15 to DN 80 (preferably DN 25 and 50 or DN 1" and 2" per data sheet IN 00.10)
- Wetted parts made of special materials, high over-pressure safety up to 10 bar (flange Ø 160 mm) or 40 bar (flange Ø 100 mm): PTFE (model 45X.56), Hastelloy B2, Hastelloy C4, Monel, Nickel, Tantalum, Titanium
  (accuracy class 2.5)
- Switch contacts (data sheet AC 08.01)
- Pressure gauge with electrical output signal, see model PGT43-HP, data sheet PV 14.07
- Version per ATEX Ex II 2 GD c TX

Special version

Model 432.36 high overpressure safety up to 400 bar
Case with blow-out back per EN 837-3
Scale ranges:
0 ... 25 mbar to 0 ... 250 mbar (flange Ø 190 mm)
0 ... 400 mbar to 0 ... 40 bar (flange Ø 120 mm)
Flange connecting screws: steel, corrosion-protected

Dimensions in mm

Standard version



NS	Scale ranges	Overpressure safe	Dimensions in mm									Weight
	in bar	up to ... bar	d	a	b	D_1	D_2	e	G	h ± 2	SW	in kg
100	≤ 0.25	40	160	15.5	49.5	101	99	17.5	G ½ B	135	27	3.4
	≤ 0.25	100	160	15.5	49.5	101	99	17.5	G ½ B	135	27	4.7
	≤ 0.25	400	190	23.5	59	101	100	17.5	G ½ B	155	27	15.7
	> 0.25	40	100	15.5	49.5	101	99	17.5	G ½ B	135	27	1.7
	> 0.25	100	100	15.5	49.5	101	99	17.5	G ½ B	135	27	1.8
	> 0.25	400	120	23.5	59	101	100	17.5	G ½ B	155	27	4.0
160	≤ 0.25	40	160	15.5	49.5	161	159	17.5	G ½ B	165	27	4.0
	≤ 0.25	100	160	15.5	49.5	161	159	17.5	G ½ B	165	27	5.3
	≤ 0.25	400	190	23.5	59	161	160	17.5	G ½ B	184	27	16.3
	> 0.25	40	100	15.5	49.5	161	159	17.5	G ½ B	165	27	2.2
	> 0.25	100	100	15.5	49.5	161	159	17.5	G ½ B	165	27	2.3
	> 0.25	400	120	23.5	59	161	160	17.5	G ½ B	184	27	4.6

Process connection per EN 837-3 / 7.3

Ordering information

Model / Nominal size / Scale range / Connection size / Overpressure safe up to ... bar / Options

WIKA Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Straße 30
63911 Klingenberg/Germany
Tel. (+49) 9372/132-0
Fax (+49) 9372/132-406
E-mail info@wika.de
www.wika.de

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