

Diaphragm Pressure Gauges

Process Industry Series Sealgaug[®] - Solid Front Case

Type 432.36 - Dry Case

Type 433.36 - Liquid-filled case

WIKA Datasheet 43X.36

Applications

- With liquid filled case optional for applications with high dynamic pressure pulsations or vibration and overpressure
- Suitable in corrosive environments for gaseous, liquid or highly viscous media
- Process industry: chemical/petrochemical, power stations, mining, on and offshore, environmental technology, mechanical engineering and plant construction
- Ideally for applications in the water/wastewater industry

Product features

- Wide selection of special wetted materials
- All stainless steel construction, solid-front case
- High overpressure safety up to 6,000 psi (400 bar)
- Ranges from 6" H₂O (16 mbar)

Specifications

Design

EN 837-3

Sizes

4" & 6" (100 & 160 mm)

Accuracy class

±1.5% of span

Ranges

Vacuum/Compound to 600 psi (40 bar)
Pressure from 6" H₂O (16 mbar) to 100" H₂O (250 mbar),
6" (160 mm) flange diameter¹

Pressure from 6 psi (400 mbar) to 600 psi (40 bar),
4" (100 mm) flange diameter¹ or other equivalent units
of pressure or vacuum

¹Flange diameter for overpressure safety up to
6000 psi (400 bar) - see page 2

Working pressure

Steady: full scale value

Fluctuating: 0.9 x full scale value

Overpressure safety

Choice of 600 psi (40 bar), 1,500 psi (100 bar) or
6,000 psi (400 bar)

Operating temperature

Ambient: -4°F to +140°F (-20°C to +60°C)

Medium: +212°F (+100°C) maximum



Diaphragm Pressure Gauge Model 432.36

Temperature error

Additional error when temperature changes from reference temperature of 68°F (20°C) ±0.8% of span for every 18°F (10°K) rising or falling

Weather protection

Weather resistant (NEMA 3 / IP54) - dry case

Weather tight (NEMA 4X / IP66) - liquid-filled case

Pressure connection and lower diaphragm housing

Material: 316 stainless steel

Lower mount (LM)

1/2" NPT female

Upper diaphragm housing

≤100" H₂O (250 mbar): Chrome steel

>100" H₂O (250 mbar): Stainless steel

Diaphragm element

≤100" H₂O (250 mbar): 316 stainless steel

>100" H₂O (250 mbar): Inconel[®] (NiCr-alloy)

All ranges with FPM/FKM (Viton) sealing gasket

Movement

Stainless steel

Dial

White aluminum with black lettering

Pointer

Black aluminum, adjustable - Type 432.36
Black aluminum, non-adjustable - Type 433.36

Case

304 stainless steel, case with solid baffle wall and blow-out back (safety case) and stainless steel bayonet ring

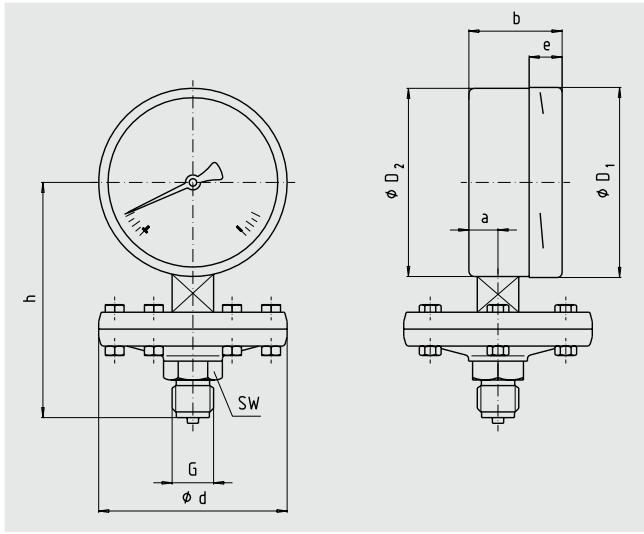
Window

Laminated safety glass with Buna-N gasket

Case fill

Glycerine - Type 433.36

Dimensions in mm



Optional extras

- Other process connections
- Case filling (type 433.36)
- Vacuum safe to -30" Hg (-1 bar)
- Max. medium temperature +392°F (+200°C)
- Max. ambient temperature -40°F...+140°F (-40°C...+60°C), silicone case filling
- Higher accuracy, class 1.0 per EN 837-3
- Open connecting flanges per DIN/ASME, DN 15 to DIN 80 (preferred nominal widths DN 25 and 50 or DN 1" and 2")
- Wetted parts made of special materials, high overpressure safe up to 150 psi (10 bar), ranges $\leq 100''$ H₂O (250 mbar) or 600 psi (40 bar) - ranges $> 100''$ H₂O (250 mbar): PTFE (type 452.36, 453.36), Hastelloy, Monel, nickel, tantalum, titanium (accuracy class 2.5)
- Additional wall bracket for type 432.36, high overpressure safe up to 6000 psi (400 bar)
- Alarm contacts
- With electrical output signal (model PGT 43HP)

*Dimensions

*Special version

High overpressure safe up to 6000 psi (400 bar)
Ranges: 0...10" H₂O (25 mbar) to 0...100" H₂O (250 mbar),
flange diameter 190 mm (7.48")
0...6 psi (400 mbar) to 0...600 psi (40 bar),
flange diameter 120 mm (4.72")

NS	Scale ranges	Overpressure safety	Dimensions in mm									Weight
	in bar	up to ... bar	d	a	b	D ₁	D ₂	e	G	h ±2	SW	in kg
4" (100 mm)	≤ 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 (160 mm)	≤ 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	65	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	65	161	160	17.5	G ½ B	184	27	4.6

Ordering information

Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required.
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.
Modifications may take place and materials specified may be replaced by others without prior notice.



WIKA Instrument, LP
1000 Wiegand Boulevard
Lawrenceville, GA 30043-5868
Tel: 888-WIKA-USA • 770-513-8200
Fax: 770-338-5118
E-Mail: info@wika.com
www.wika.com