XSEL[®] Process Gauge - Stainless Steel Type 232.34 - Dry Case Type 233.34 - Liquid-filled Case

WIKA Datasheet 23X.34

Applications

- For applications with high dynamic pressure pulsations or vibration a liquid filled case and socket restrictor are available
- Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system
- Process industry: chemical/petrochemical, power stations, mining, on and offshore, environmental technology, mechanical engineering and plant construction

Product features

- Excellent load-cycle stability and shock resistance
- Solid front thermoplastic case
- Positive pressure ranges to 30,000 psi (2,000 bar)
- XSEL[®] Process Gauge with 5 year warranty on gauge and 10 year warranty on pressure system (see terms and condition
- All lower mount connection gauges are factory prepared for liquid filling

(LBM: must install membrane prior to field filling)

Specifiations

Design

ASME B40.100

Sizes

41/2" & 6" (115 & 160 mm) dial size

Accuracy class

± 0.5% of span (ASME B40.100 Grade 2A) ± 1.0% of span (ASME B40.100 Grade 1A) for 20,000 psi (1,600 bar) range and above

Ranges

Vacuum / Compound to 400 psi (25 bar) Pressure from 15 psi (1 bar) to 30,000 psi (2,000 bar) or other equivalent units of pressure or vacuum

Working pressure

Steady:full scale valueFluctuating:0.9 x full scale valueShort time:1.5 x full scale value

Operating temperature

Ambient: -40°F to +150°F (-40°C to +66°C) - dry -4°F to +150°F (-20°C to +66°C) - glycerine filled -40°F to +150°F (-40°C to +66°C) - silicone filled Medium: max. +212°F (+100°C)



Bourdon Tube Pressure Gauge Model 232.34

Temperature error

Additional error when temperature changes from reference temperature of 68°F (20°C) \pm 0.4% of span for every 18°F (10°K) rising or falling.

Weather protection

Weather resistant (NEMA 3 / IP54) - without membrane Weather tight (NEMA 4X / IP65) - dry case or filled case with membrane installed

Pressure connection

Material: 316L stainless steel Lower mount (LM) or lower back mount (LBM) 1/4" or 1/2" NPT with M4 internal tap

Restrictor

Material: Stainless steel (0.6 mm), standard

Bourdon tube

Material: 316L stainless steel ≤ 1,000 psi (69 bar): C-shape ≥ 1,500 psi (100 bar): Helical

Movement

Stainless steel Internal overload stop set at 1.1x full scale Underload stop-optional Dampened movement-optional

Dial

White aluminum with black lettering, stop pin at 6 o'clock Standard WIKA psi single scales ($4\frac{1}{2}$ " only) with large figures at beginning and end for quick and easy identification.

Pointer

Black aluminum, adjustable

Case

Black fiberglass-reinforced thermoplastic (POCAN) Solid front, blowout back Turret-style case with built in rear flange lugs

WIKA Datasheet 23X.34 · 06/2015



Page 1 of 2

Window

Clear acrylic with Buna-N gasket

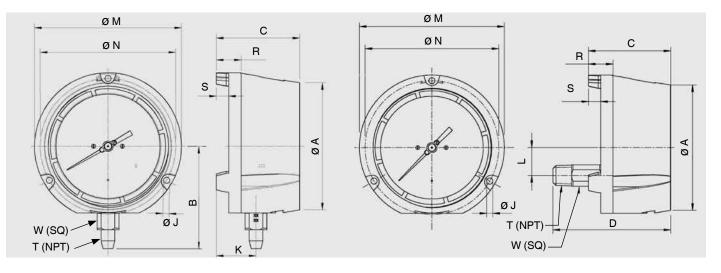
Case filling

Glycerine 99.7% - Type 233.34

Optional extras

- Silicone dampened movement
- Panel mounting adaptor kit (field assembled)
- Silicone case filling
- Halocarbon case filling
- Cleaned for oxygen service
- Instrument glass or safety glass window
- Drag pointer (maximum reading indicator)
- Alarm contacts switches (magnetic or inductive)
- Special process connections
- Custom dial layout
- External zero adjustment (4.5" size only)
- Case and ring in red or yellow thermoplastic (4½" LM only)
- Insight[®] reflective dial options available in white, fluorescent yellow, fluorescent orange or glow-in-the-dark

Dimensions



Size																
		А	В	С	D	J	K	L	М	Ν	R	S		W	Weight ¹	
4.5"	mm	128	103	84	120.3	6.3	40	28.5	148	136.5	25	12.5		22	2 lb.	dry
	in	5	4.06	3.31	4.74	0.248	1.57	1.12	5.83	5.37	0.99	0.49	1/2"	0.87	3 lb.	filled
6"	mm	164	122.5	88	123.4	7.1	40.2	28.5	190	177.8	25.4	12.7		22	3 lb.	dry
	in	6.46	4.82	3.46	4.86	0.28	1.58	1.12	7.5	7	1	0.5	1/2"	0.87	4 lb.	filled

¹ Weight without optional accessories

Page 2 of 2

© 2015 WIKA Instrument, LP. 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 Datasheet 23X.34 · 06/2015



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