

Precision test gauges with Bourdon tube according to EN 837-1

Nominal size ND 250 mm

Connection position bottom

Accuracy class 0.6



Description

Our precision test gauges are manufactured to highest standards and are used to test pressure in research and development, in laboratories and quality assurance.

The precision test gauges have a high-grade measuring element. The pressure proportional elastic deformation of this Bourdon tube is transmitted through a low friction movement to the knife edge pointer.

Test gauges are suitable for measuring of non-aggressive gaseous and liquid media, although this may not be too viscous or be susceptible to crystallization.

Accuracy can be proved by means of calibration certificate acc. to DIN 55 350 Part 18 type M against surcharge.

Special features

- o exact readings, small scale graduation
- o accuracy class 0.6
- o 1.3-fold overpressure capability
- o window glass lens

Measuring ranges


0 ... 0.6 bar up to 0 ... 1600 bar

Applications

Precision monitoring in processing plants;
Control and adjustment of pressure gauges,
Test equipment

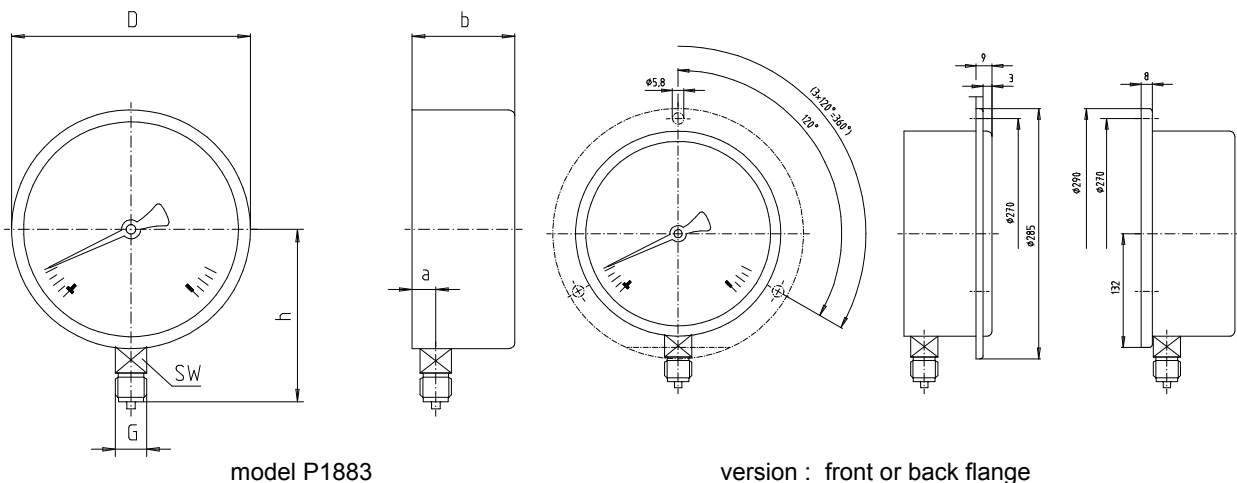
Model: P1883

Technical data

| Model | P1883 | Options |
|--------------------------------------|---|-----------------------------|
| Nominal size | 250 | |
| Symbol |  | |
| Accuracy class | 0.6 according EN 837-1 | test certificate |
| Ranges | 0 ... 0.6 bar up to 0 ... 1600 bar negative or positive / negative and positive gauge pressure | |
| Application | static pressure : up to full scale value dynamic pressure : up to 0.9 times full scale value 1.3 times max. rating shortly | |
| Case | steel, black finish | back flange |
| Bezel | steel, black finish | front flange |
| Window | glass lens | safety glass |
| Dial | aluminium white, scale markings black | |
| Pointer | knife edge pointer, aluminium, black | |
| Movement | brass | |
| Measuring element | copper alloy < 100 bar Bourdon tube, soft- soldered stainless steel 1.4571 ≥ 100 bar helical tube, hard- soldered NiFe -alloy ≥ 1000 bar helical tube, welded | |
| Connection - Location - Thread | < 1000 bar Brass; ≥ 1000 bar stainless steel 1. 4571 bottom G 1/2 B, SW 22 | other threads on request |
| Temperatures - Media - Ambient | Tmin. -20°C , Tmax. 60°C; soft-soldering Tmin. -20°C , Tmax. 100°C; hard-soldering/welding Tmin. -20°C , Tmax. 60°C | |
| Temperature drift | 0.4 % / 10K if deviation from normal temperature 20°C | |
| Protection class | IP 54 according EN 60 529/IEC 529 | |
| Calibration medium 1) | ≤25 bar : gas , >25 bar : oil | ≥ 4 bar : oil |
| Orifice | | ø0.3 ; ø0.4 ; ø0.8 |
| Weight approx. | 3.0 kg | |

1) Please state the used medium when ordering, because with the change of the pressure transmitting medium gas (G) or liquid (F), display changes can take place

Dimensions



| Model | Dimensions (mm) | | | | | | | | |
|-------|-------------------|----------|----------|----------|-----|----|------|---------|----|
| | a | b ≤4 bar | 6-60 bar | ≥100 bar | D | f | h ±1 | G | SW |
| P1883 | 17 | 64.5 | 51.5 | 64.5 | 250 | 50 | 165 | G 1/2 B | 22 |

Modifications reserved