

Precision test gauges with Bourdon tube and mirrored scale

Nominal size ND 160 mm

Connection position bottom, radial

Accuracy 0.25 % ASME B40



Description

Our precision test gauges with mirrored scale are manufactured with highest precision and are used to test pressure in research and development and in laboratories.

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

Test gauges are suitable for measuring of nonaggressive gaseous and liquid media, although this may not be to viscous or be susceptible to cristallization.

Features

- o Exact readings
- o 1.3-fold overload capacity
- o Mirrored scale
- o Pointer with microadjustment

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 : P1881

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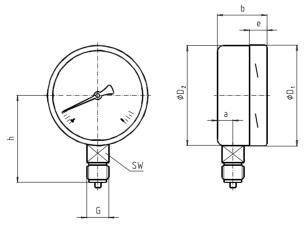
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Technical data

Models	P1881	Options	
Nominal size	160		
Symbol			
Accuracy class	0.25 % (ASME B40.1-1991)		
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	Stainless steel 1.4301 Pressure relief opening at back of the case	Back flange	
Bezel	Stainless steel 1.4301	Front flange	
Window	Glass lens	Safety glass	
Dial	Aluminium white, scale and imprint black, mirrored	Dual scale	
Pointer	Knife-edge pointer, alu., black, with micro-adjustment		
Movement	Brass		
Measuring element	<100 bar Copper alloy / Bourdon tube / soft soldered ≥100 bar Stainless steel / helical tube / brazed ≥1000 bar Stainless steel / helical tube / welded		
Connection	<1000 bar Brass; ≥1000 bar stainless steel 1. 4571		
- Location - Thread	bottom G 1/2 B or 1/2-14 NPT	Other thrads on request	
Temperatures - Media - Ambient	Tmin20°C , Tmax. 60°C; Tmin40°C , Tmax. 60°C		
Temperature drift	0.3 % / 10K if deviation from normal temperature 20°C		
Protection class	IP 54 according EN 60 529/IEC 259		
Calibration medium ¹⁾	\leq 25 bar : gas , >25 bar : oil	\geq 4 bar : oil	
Orifice		ø0.4 ; ø0.8	
Weight ca.	1.3 kg		

 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 (mm)



G	h ±1	D1	D2	b ²⁾	е	а
G1⁄2 B	118	161	159	49.5	17.5	15.5
G3/8 B	114	161	159	49.5	17.5	15.5
½ -14NPT	117	161	159	49.5	17.5	15.5
R½ - 2999	117	161	159	49.5	17.5	15.5

2) plus 16 mm with pressure ranges \leq 4 bar and \geq 1600 bar