

# **Heavy Duty pressure gauges** with Bourdon tube and glycerine filling

Nominal sizes ND 100 and 160 Connection position bottom, radial or back, eccentric

#### Licence:





### **Description**

The Heavy Duty pressure gauges with glycerine filling are used at measuring points with high dynamic alternating loads and strong vibrations and pulses.

The glycerine filling ensures smooth pointer movement and thus good readability even in extreme load and strong vibration conditions. The lubricating effect of the glycerine also provides protection against increased wear.

The modern modular construction system with an o-ring sealing system, tried and tested for many years, ensures a high level of functional safety and a long service life.

Case components are composed of stainless steel.

#### **Features**

- o High reliability and long service life due to modular construction system
- o Overload capacity 1.3x
- o Protection to IP 65
- o Accuracy class 1.0
- o Casing, stainless steel
- o Copper alloy measuring system
- o Vibration-free display

#### Measuring ranges

0 ... 0.6 bar to 0 ... 1000 bar

#### **Applications**

iron and steel industry, power stations, general mechanical engineering, pumps, hydraulics, compressors, water treatment plants.

Models: P1778, P1779, P1780, P1781

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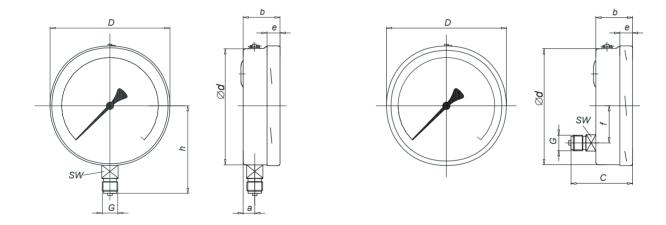
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### **Technical data**

Models	P1778	P1779	P1780	P1781	Options		
Nominal size	1	00	1	60			
Symbol							
Accuracy class	1.0 to EN 837-1						
Ranges	00.6 bar to 0 negative or posit						
Applications	Constant load: Dynamic load: up short-time: overlo	1.5 to 2 x					
Case		Stainless steel 1.4301 with pressure relief opening					
Bezel	Stainless steel 1	Stainless steel 1.4301					
Mounting							
Window	Glass lens	Glass lens					
Dial	Aluminium, white	Dual scale					
Pointer	Aluminium, black	Aluminium, black					
Movementq	CuZn-alloy						
Measuring element	Copper alloy up						
Pressure connection	Copper alloy up						
- position	radial bottom	rear eccentric	radial bottom	rear eccentric			
- thread	G 1/2 B	Other threads on request					
Temperatures - Medium - Ambient	Tmin20°C, Tm Tmin25°C, Tm						
Temperature drift	0.4%/10K if devia						
Liquid filling	Glycerine	Others on request					
Protection	IP 65 to EN 60 5	i					
Orifice		ø 0.3 ; ø 0.4 ; ø 0.8					
Weight	0.9 kg	0.9 kg	2.1 kg	2.1 kg			

## **Dimensions**



Model: P1778, P1780 Model: P1779, P1781

	Model	Dimensions in mm										
		ND	а	b	С	D	ø d	е	f	G	h	SW
	P1778	100	17.7	54		101	99	16.7		G 1/2 B	87	22
	P1779	100		54	85.5	101	99	16.7	30	G 1/2 B		22
	P1780	160	15.5	49.5 <sup>2)</sup>		161	159	17.5		G 1/2 B	118	22
	P1781	160		49.5 <sup>1)</sup>	83 <sup>1)</sup>	161	159	17.5	50	G 1/2 B		22

<sup>1)</sup> Plus 16 mm with pressure range  $\geq$  100 bar 2) Plus 16 mm with pressure range 1600 bar