

All stainless steel pressure gauges with Bourdon tube, with or without glycerine filling

Accuracy class 1.0

Nominal sizes ND 160

Connection position bottom, radial or back, eccentric



Description

The all stainless steel pressure gauges are ideal for the hard conditions and the resulting high demands on pressure measurement in production facilities in chemical industry and other comparable branches. Resistance to aggressive media and environments is achieved by using high-grade materials such as stainless steel both for the measuring system and the case.

The glycerine filling provides wear-protection for the measuring system through damping, should pulsating pressures and mechanical vibrations occur. The measuring system is of accuracy class 1.0, has overrange protection amounting to 1.3 times the max. rating and can be loaded up to the full scale value.

Pressure gauges with glycerine filling are equipped with a compensation diaphragm. This diaphragm avoids a pressure rise in the case that is due to temperature bound volume expansion of the liquid filling, thus avoiding indicated errors.

A whole series of installation possibilities enables adaptation to special requirements.

Features

- o Stainless steel case and measuring system
- o Protection to IP 54 resp. IP 65 (with filling)
- o Accuracy class 1.0
- o For use up to full scale value
- o Overload capacity 1.3 times max. rating
- o Case with or without glycerine filling

Measuring ranges

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

Applications

Chemical and petrochemical industry;

Plastics and paper industry;

Food and beverage industry;

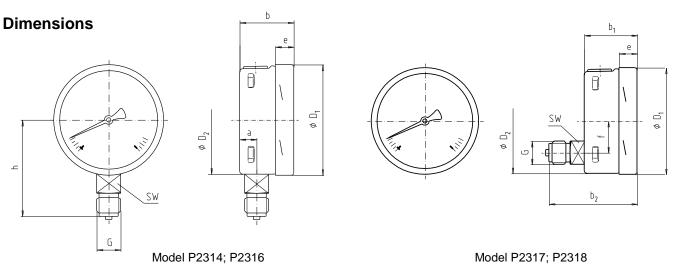
Machines and apparatus construction.

Models: P2314, P2316, P2317, P2318

Technical data

Model	P2314	P2316	P2317		P2318	Options			
Nominal size	160								
Symbol	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		OF THE STREET						
Accuracy class	1.0 to EN 837								
Range		0 1600 bar			2100 bar (without filling)				
	negative or po	sitive / negative							
Application DIN 837-1 1)	Constant load								
	Alternating loa								
Overpressure Protection	1.3 x short-tim								
Case	Stainless stee	l 1.4301 plain	Stainless steel, polished						
		f opening (closed							
Bezel		l 1.4301 plain, ba	polished						
Mounting	Without flange	9				Front flange stainless steel (ss)1.4301			
			polished, Rear flange: ss 1.4301						
Window	Laminated sa								
Dial		nite, scale and im	Dual scale						
Pointer	Aluminium, bl	ack	Pointer with micro-adjustment, marker						
Marraga	04-1-1	14 4004 /4 4005	pointer, max. indicating pointer						
Movement		1.4301 / 1.4305	plastic teeth and bearing, oil-damped shaft (Manocont)						
Measuring element	Stainless stee		Monel (model P2314, P2316)						
		≤ 60 bar, helical							
Connection	Stainless stee		ccentric						
- position	b	ottom							
- thread			/2 B			Other threads on request			
Liquid filling	none	glycerine	none	;	glycerine	glycerine / water mixture			
Protection to	IP 54	IP 65	IP 54	Į.	IP 65				
EN 60 529 / IEC 529	• .			•	55				
Temperatures									
- Medium	Tmin 20°C				Tmin 20°C,				
	Tmax. +200°C				Tmax. +100°C				
- Ambient	Tmin 40°C,		Tmin 40 Tmax. +60		Tmin 20°C, Tmax. +60°C				
	Tmax. +60°C	Tmax. +60°C							
Temperature drift		eviation from nor							
Throttle	without					Stainless steel 1.4571 / ∅ 0.4; ∅ 0.8			
Weight approx.	0.930 kg	2.100 kg	1.100	kg	2.100 kg				

¹⁾ Measuring range: >1000 bar, constant load 3/4 full scale value; alternating load 2/3 full scale value; overload capacity = full scale value



Model	Dimensions in mm										
	а	b	b ₁	b_2	D_1	D_2	е	f	G	h ±1	SW
P2314, P2316	15.5	49.5 ¹⁾	49.5 ¹⁾	83 ¹⁾	161	159	17.5	50	G1/2B	118	22
P2317, P2318	15.5	49.5	49.5	03	101	159	17.5	50	G1/26	110	22

¹⁾ By measuring range: ≥100 bar, the dimension will be increased about 17 mm

Modifications reserved