

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

Accuracy class 1.0

Nominal sizes ND 160



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; Machine and apparatus construction.

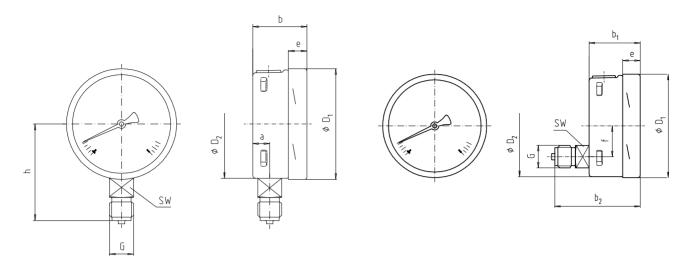
Models: P2314, P2316, P2317, P2318

Technical data

Model	P2314	P2316	P2317	P2318	Options		
Nominal size			160	·			
Symbol							
Accuracy class	1.0 to EN						
Range	negative o pressure		ive and positive g				
Application ¹) DIN 837-1	Constant le		l scale value o 0.9 x full scale v				
Overpressure Protection	1.3 x short						
Case	Stainless	steel 1.4301 plair	n osed with rubber (Stainless steel, polished			
Bezel		steel 1.4301 plair		polished			
Mounting					Front flange stainless steel 1.4301 polished, Rear flange stainless steel 1.4301		
Window	Laminated	safety glass					
Dial		, white, scale an	d imprint black	Dual scale			
Pointer	Aluminium	, black		Pointer with micro-adjustment, marker pointer, max. indicating pointer			
Movement	Stainless	steel 1.4301/ 1.43	305	plastic teeth and bearing, oil-damped shaft (Manocont)			
Measuring element	Stainless s Bourdon to		ical tube ≥ 100 ba	Monel (model P2314, P2316)			
Connection - position - thread	Stainless s	steel 316 L 1/2-14 NPT	back, eccentric	Other threads on request			
Liquid filling	none	glycerine	none	glycerine	glycerine / water mixture		
Temperatures - Medium - Ambient	Tmin20°	C, Tmax. 100°C C, Tmax. 60°C	Hone	Model P2314, P2317 Tmax. 200 °C			
Temperature drift			normal temperati				
Protection to EN 60 529 / IEC 529	IP 54	IP 65	IP 54	IP 65	IP 65		
Orifice					Stainless steel 1.4571 Ø 0.4; Ø 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

Dimensions



Model P2314; P2316

Model P2317; P2318

Model	Dimensions in mm											
	а	b	b ₁	b_2	D_1	D_2	е	f	G	h ±1	SW	
P2314, P2316 P2317, P2318	15.5	49.5 ¹⁾	49.5 ¹⁾	83 ¹⁾	161	159	17.5	50	G½B	118	22	