

All stainless steel safety pressure gauges according to EN 837-1/S3 with or without glycerine filling

Nominal sizes ND 100

Connection position bottom



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.

The safety execution of the pressure gauges comprises a burstproof solid front between dial and Bourdon tube, a laminated safety glass as well as a blow-out back (according to EN 837-1/S3).

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.

Features

- o Measuring system of high corrosion resistant materials, Stainless steel or Monel 400
- o Resistant to chemicals
- o Accuracy class 1.0
- o Fulfills highest safety requirements to EN 837-1/S3
- o Solid front between measuring system and dial
- o Vibration-free display and long service life through glycerine filling

Ranges


0 ... 0.6 bar to 0 ... 4000 bar

Applications

Processing technology, Compressors
Machine and apparatus construction.

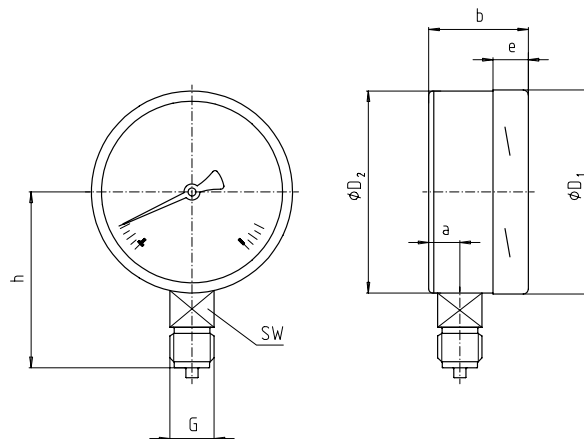
Models: 1701, 2112, 2113, 2202

Technical data

Model	2112	2113	2202	1701	Options
Nominal size	100				
Symbol					
Accuracy class to EN 837-1	1.0		1.6		
Ranges	0 ... 0.6 bar to 0 ... 1600 bar negative or positive / negative and positive gauge pressure		0 ... 1.6 bar to 0 ... 400 bar	0 ... 2500 bar to 0 ... 4000 bar	
Application	Constant load: up to full scale value Alternating load: up to 0.9 x full scale value short-time: overload capacity 1.3		3/4 fsv ¹⁾ 2/3 fsv full scale value		(2112 + 2113 - 1.5 to 2 x)
Case	Stainless steel, 1.4301 with blow-out back, solid front				
Bezel	Stainless steel, 1.4301 bayonet ring				Front flange
Window	Laminated safety glass				
Dial	Aluminium, white, scale and imprint black				Dual scale
Pointer	Aluminium, black				
Movement	Stainless steel				
Measuring element	Stainless steel, 316 L Bourdon tube up to 60 bar, helical tube above 100 bar		Monel 400	Stainless steel	
Pressure connection - position	Stainless steel, 316 L radial bottom		Monel 400	Stainless steel	
- thread	G 1/2 B (1/2 NPT)		M16x1.5 female with cone 60°		Other threads on request
Temperatures - Medium - Ambient	Tmin. -20°C, Tmax. 100°C Tmin. -20°C, Tmax. 60°C				200°C (without filling)
Temperature drift	0.3% /10K if deviation from normal temperature 20°C				
Liquid filling	none		glycerine		
Protection to	IP 65 EN 60 529 /IEC 529				
Orifice					ø 0.4 ; ø 0.8
Weight approx..	0.600 kg		1,000 kg		

1) fsv = full scale value

Dimensions



Model	Dimensions [mm]							
	a	b	D1	D2	e	G	h ±1	SW
2112, 2113	24	57,5	101	100	17,5	G½ B	87	22
2202, 1701	24	57,5	101	100	17,5	G½ B	87	22

Modifications reserved