All stainless steel safety pressure gauges with or without glycerine filling

according to EN 837-1/S3 and ANSI/ASME B 40.1

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.

The safety execution of the pressure gauges comprises a burst-proof solid front between bourdon tube and window, 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 Stainless steel measuring system
- o Resistant to chemicals
- o Rugged construction
- o Fulfills highest safety requirements
- o Solid front between measuring system and window
- o Case with and without glycerine filling

Ranges

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

Applications

Chemical and petrochemical industry; Plastics and paper industry; Food and beverages industry; Plant construction; Machine and apparatus construction; Research and development; Compressors High pressure test benches; Burst test benches.

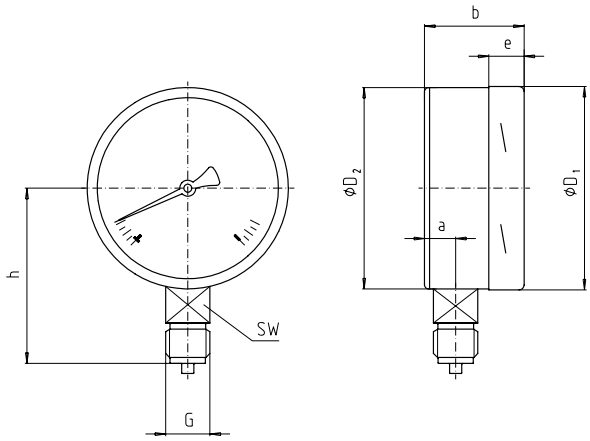
Models: 2115, 2116

tecsis GmbH
Carl-Legien Str. 40
D-63073 Offenbach / Main
Tel.: +49(0) 69 / 5806-0
Vertrieb Inland
Fax: +49(0) 69 / 5806-170
Export Sales
Fax: +49(0) 69 / 5806-177
e-Mail: info@tecsis.de
Internet: www.tecsis.de

Technical data

Model	2115	2116	Options
Nominal size	160		
Symbol			
Accuracy class	1.0 to EN 837-1		
Ranges	0 ... 0.6 bar to 0 ... 1600 bar negative or positive / negative and positive gauge pressure		
Applications	Constant load: up to full scale value Alternating load: up to 0.9 x full scale value		
Overload protection	1.3 x , short-time		1.5 to 2 x
Case	Stainless steel 1.4301 with blow-out back and solid front		
Bezel	Stainless steel 1.4301 bayonet ring		
Mounting			Rear flange, stainless steel 1.4301
Window	Laminated safety glass		
Dial	Aluminium, white , scale and imprint black		Dual scale
Pointer	Aluminium, black		Marker pointer on dial
Movement	Stainless steel		
Measuring element	Stainless steel 316 L Bourdon tube up to 60 bar, above 100 bar helical tube		
Connection - position - thread	Stainless steel 316 L bottom G 1/2 B to DIN ISO 228		 1/2 NPT; G 3/8 B; 9/16-18 UNF 3B protective cap for thread
Temperatures - Medium - Ambient	 Tmin. –20°C, Tmax. 100°C Tmin. –20°C, Tmax. 60°C		
Liquid filling	none	glycerine	field fillable
Protection	IP 65 EN 60 529 / IEC 529		
Orifice			∅ 0.4; ∅ 0.8 in thread
Weight approx.	1.5 kg	2.5 kg	
Accessories			label for measuring point (1.4301)

Dimensions



Model	Dimensions in mm							
	a	b	D1	D2	e	G	h ±1	SW
2115 2116	24	58 [1)]	161	160	17.5	G½ B	118	22

[1)] 75.5mm with pressure range 1600 bar

Modifications reserved