BOURDON TUBE PRESSURE GAUGE FOR SPECIAL SAFETY according to EN 837-1/S3 (S)



NS 63, 100, 160 with or without glycerine filling



Description

The pressure gauges for special safety consistenly consider the hard operating conditions and the resultant high demands for the pressure measurement in production plants of the chemical industry.

Through the usage of high-grade materials, e. g. stainless steel, for the measuring system as well as for the case, the resistance to aggressive media and surroundings is achieved.

With the execution of a glycerine filled case, the measuring system is damped, when pulsating pressures and mechanical vibrations occur and protected against abrasion.

The safety features of the pressure gauges include a break-proof partition between the dial and the measuring system, a multilayer safety glass and a blow-out back (acc. to EN 837-1/S3).

Pressure gauges with glycerine filling are equipped with a pressure balance device. It avoids a pressure rise in the case, caused through the temperaturedependent volume expansion of the glycerine filling. It avoids a falsification of the display.

Applications

Process technology Chemical and und petrochemical industry Food and beverage industry Machine- and apparatus industry

Features

- · chemical-proof
- solide construction
- meets safety requirements acc. to EN 837-1/S3
- break-proof partition between measuring system and inspection glass
- vibration-free display and longer life through case filling

Measuring ranges

0 ... 0,6 bar up to 0 ... 1000 bar

optional for high pressure applications 0...2000 bar up to 0...6000 bar

Schematic drawing





Туре	6505	6507	6513	6516	Options		
Diameter	63	63	100	160			
Symbol	l j		Ū		Glycerine filling		
Connection position	radial bottom	back excentric	radial bottom	radial bottom	NS 100 back excentric		
Accuracy class	class 1,6 class 2,5 for mea 0600 and 010		class 1,0				
Display range	00,6 bar up to ()1000 bar	00,6 bar up to ()1600 bar	NS100 + NS160 as high pressure application 02000 up to 06000 bar		
Field of application Static load: Dynamic load: Overload:	75 % of full scale 65 % of full scale max. full scale va	value	Full scale value 90 % of full scale 1,3 x full scale va				
Case	Stainless steel 1. blow-out back an						
Ring	Stainless steel 1.						
Measuring unit	Stainless steel 37						
Pressure connection	Stainless steel 37						
Thread	G 1/4 B		G 1/2 B		HD-connection for 1/4"- female, M16x1,5 others on request		
Window	Laminated safety						
Pointer mechanism	Stainless steel						
Dial	Aluminium white,	Special scale, Double scale					
Pointer	Aluminium black	Drag pointer, Reference pointer					
Temperatures unfilled filled	Store: -40°C up to Medium up to +2 Store: -20°C up to Medium up to +1	Surrounding tempera- tures -40°C for filled execution					
Optional mounting	Mounting back fla						
Protection class	IP 54 acc. to EN						
Weight approx. unfilled filled	0,18 kg 0,25 kg	0,18 kg 0,25 kg	0,65 kg 1,00 kg	1,50 kg 2,95 kg			

Dimensional drawings

Dimensions in mm

Type 6505, 6513, 6516







Type 6507





Туре	NS	D	т	SG	b	b1	а	h	D1	С	c1	c2	е	g
6505	63	64	G1/4B	14	41	-	18	54	62	5	2	13	-	-
6507	63	64	G1/4B	14	-	41	-	-	-	5	2	13	18	63
6513	100	101	G1/2B	22	60	-	27	87	99	6	3	20	-	-
6516	160	161	G1/2B	22	79	-	43	115	159	6	3	20	-	-

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